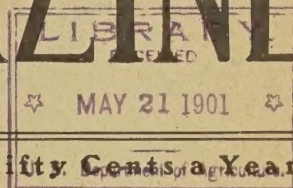


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A black and white portrait of a Native American man, likely a chief, with long hair and a serious expression. The image is a woodcut-style engraving, showing the man from the chest up. He has dark, wavy hair that falls over his forehead and down his sides. His face is oval-shaped with a prominent nose and a slight frown. He is wearing a simple garment with a visible collar or necklace. The background is plain.

MISERABLE, DESPAIRING AND
NERVE TORTURED

Mrs. Frank Willard Promises You Health and Happiness—Read Her Letter.

Dear Sister—For five years I suffered as only women suffer and it seemed as if I was heir to all the peculiar diseases of my sex. I was made a well and happy woman through an old Indian squaw, who lived near me at Fort Smith, Arkansas. She gave me a formula of herbs and simples that were miraculous in their effect, and since I have cured, I know how I know how to cure. Recently I determined to tell the world at large of this great blessing to womankind, and my dear sister, if you are suffering from Leucorrhoea, Painful, Irregular, Scanty, Suppressed or Profuse Periods, Womb and Ovarian trouble, Gravel, Lichen, Inability to bear children to maturity, or any of the above, I will send you a large bottle of my *Secretly Prescribed Regenerator* for free. Do not delay one minute. Write at once to the undersigned. All correspondence and medicine sent free from outside printing, and your letter will be seen by me *only*. Send 2c. stamp for your booklet.

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Mrs Franc Willard

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ILLUSTRATED FAMILY MAGAZINE

Vol. 25

May Number & 1901

No. 3

IRIS.

The Iris is a particularly interesting plant on account of the peculiar, one might say, the classical shape of its blossoms, and their varied coloring. No other flower combines in such rare degree grace of outline and delicacy of coloring. The majority of even the common varieties are lovely, and all of them are worthy of cultivation.

The Iris has been called the "poor man's Orchid," and indeed many of the species rival the members of that aristocratic family in beauty, with the added recommendation that they will adapt themselves to almost any conditions and flourish in almost any garden soil without special care. A large number of the common varieties will produce a profusion of flowers with only scant attention.

Beginning in the early spring one species follows another in time of blooming, thus keeping up a succession of flowers and adding greatly to the attractiveness of the garden and the hardy border. Their usefulness in keeping up a continuity of bloom can hardly be overestimated, and their richly or delicately tinted flowers are excelled by none of our garden favorites.

About one hundred species and a great number of garden varieties of Iris are offered by dealers in this country, so that an almost infinite variation in color, markings, size, and time of blooming can be obtained. Iris can be grown from seed, but it takes some time for the seeds to germinate, and the plants will not bloom until they are two or three years old, so it requires a great deal of patience to wait for results. The better way is to procure roots from some reliable dealer. Fall is the best time for planting.

The individual blossoms of the Iris are not so very long-lived, lasting from three to six days, but every bud on a stalk will open, so they are valuable for cut flowers. Iris generally run through the colors of white, blue, yellow, mauve, and purple, but Mr. Peter Barr speaks of seeing a new variety in Australia in which the petals were veined with rosy red.

One great point in the cultivation of Iris is to let them alone so long as they seem to be doing well. Nearly all species object to being disturbed. When established the clumps increase in size rapidly, and are much more certain to bloom if left undisturbed.

Iris pumila, a dwarf species, is the earliest to bloom, beginning usually in April or May. The flowers are of the same form as the well known German Iris, but large in proportion to the size of the plant, which only grows about four or five inches high. There are several varieties, in color varying from white to blue, yellow and purple.

The dwarf Iris is not very particular as to soil, but is said to do better in sun than in shade. It should be planted in masses, or in broad lines, to be the most effective. It makes a fine edging and can be grown with other border plants, thus producing a fine effect when the colors harmonize.

The German Iris, the old-fashioned "Flower-de-

Luce" of our grandmothers' gardens, has never been without admirers, and now the almost infinite variety of colors and markings make it especially beautiful and desirable. The possessor of a fine bed of German Iris is certainly to be envied. The curiously constructed flowers with their quaint markings and blending of beautiful colors make a most attractive feature in the garden, whether planted in masses or scattered in clumps in the hardy border. On account of their hardiness of growth, they are especially adapted to cultivation in our gardens. The root of the



GERMAN IRIS

German Iris is a short, thick, creeping rhizome. In planting German Iris and other sorts with thick, creeping rhizomes, the roots should be placed but little below the surface and level with it; if planted deeply they decay.

It would be impossible to describe even a tithe of the many beautiful species and varieties. The following are a few of the most attractive and desirable:

Victorinna, inner petals, or standards, nearly white, sometimes blotched with purple; outer petals, or falls, deep rich purple. 2 feet.

Celeste, large flowers of beautiful, pale blue. 2 feet.

L'Avenir, flowers pale blue with faint markings at base of petals. 18 inches.

Bridesmaid, palest of lavender; outer petals beautifully bordered with lines of darker lavender. Very fine. 18 inches.

Princess of Wales, beautiful large white blossoms. 15 inches.

Flava, palest cream color with light brown markings. Very pretty in contrast with the pale blue varieties. 2 feet.

Jacquesiana, deep maroon velvet tinged with bronze and crimson. 2 feet.

Hector, pale yellow stained with purple. 2 feet.

Madame Chereau, clear white, handsomely feathered and bordered with lavender markings. 2 feet.

Albionis, large, pure white flowers. 1 foot.

Liabaud, deep yellow standard, falls maroon. 18 inches.

Sampson, dark yellow, falls heavily, tipped and marked with lines of dark brown. 1 foot.

Atropurpurea and Common Purple are the best of the purple varieties.

Iris florentina, the common Florentine Iris, has large white flowers tinged with lavender. 2 feet.

Iris pallida Dalmatia, with pale blue flowers, is the tallest growing species, reaching four feet in height. It is a most beautiful species.

The Spanish Iris follow the German in order of blooming. They like a warm, sheltered situation in a light rich, sandy soil, with good drainage. In manner of growth they are entirely different from the German. The roots are bulbous; the leaves are narrow and spike-like, growing straight up. When planted in the fall they produce leaves which are persistent during the winter. A slight protection is advisable when cold weather sets in. For best effect the Spanish Iris should be planted close together, and should not be disturbed for years if they seem to be doing well.

The flowers of the Spanish Iris are smaller than the German, but they are very bright, distinct and charming. Their great beauty lies in the vividness and wonderful combinations of color which they show. The prevailing colors are white and various shades of blue, purple, or violet, yellow, orange and bronze, and it sometimes seems as if shades of all these various tints were combined in one blossom, producing almost

startling effects. In fact, the combinations of color are marvelous, and a bed of the plants in full bloom will hold one's attention for a long time. It is impossible to form any idea of their beauty without seeing them. The whole plant has a particularly saucy, jaunty air, which seems to say: "Did you ever see anything prettier?"

The English Iris follows the Spanish, blooming in June and July. The roots are bulbous. The

blossoms are larger than those of the German varieties, being wider in all their parts. The range of color is more limited, comprising only white and purple. Mt. Blanc, a pure white, is one of the most satisfactory of this group.

Annuals can be planted between the rows of the bulbous species of Iris, or bedding plants set out, as the Iris die down after blooming.

The Japan Iris is the latest to bloom. The flowers are very large, some measuring from nine to eleven inches across; they differ from the German Iris in being broad and flat. The colors are striking, ranging from white to lilac, and from sky blue to indigo, deep purple, and a blackish maroon, sometimes plain, and

sometimes variegated with darker veins. The white-flowered forms are magnificent; one, Gold Bound, has very large, snow-white flowers with a gold-banded center.

The Japan Iris succeeds best in a moist soil. To do itself justice it should have a plentiful supply of water during the growing season. It will grow on the upland, or on a side hill, but it does not do its best in such a location. To produce large flowers both water and manure are necessary. It is said that in Japan this Iris is grown in the rice fields where the ground can be flooded in winter. When growth is ended the water is withdrawn. They are such grand flowers that they repay a little extra care and attention. They form large clumps, grow from two to three feet in height and produce several flower stems. Coming as they do, in July, at the last of the Iris season, they are particularly valuable.

Iris susiana is one of the most peculiar of all the Irises. The flowers are very large; falls densely spotted and striped with lines of brown-black on a grayish ground. The erect standards are much spotted on a little lighter groundwork than the falls. This is a very distinct and beautiful species, but it is not perfectly hardy in this latitude, requiring protection and then not always surviving the winter.

Iris pseudacorus is a native of Europe and western Asia, but it has become established in several parts of our country and grows without cultivation. The plants form fine large clumps bearing numerous flower stalks. The flowers are large, bright yellow and orange yellow with radiating brown veins on the claws. It is called the Yellow Iris or Water Flag, and is a very handsome bog plant.

If one's purse will not allow indulging in the foreign varieties, our native Iris, *I. versicolor*, is not by any means to be despised. A meadow of "blue flags" in bloom is a beautiful sight, and a close examination of the blossoms reveals a beauty and delicacy of coloring wholly unsuspected by the casual observer. Like all Iris, the "blue flag" grows naturally in wet places, but it can be successfully grown in the

home garden, doing best, of course, where native conditions are imitated, but thriving under almost any treatment. Our illustration is from a photograph of a plant growing in the garden of Mr. H. W. Britcher, Syracuse, N. Y., and it shows how well this Iris grows even where it has only ordinary cultivation, including only an occasional watering.—*Florence Beckwith.*

FLOWER GOSSIP.

BY EBEN E. REXFORD.

This is the month for seed-sowing at the North. Do not attempt to "get the start of the season" by putting in seed until the ground and the weather are reasonably warm. Haste often makes waste. Seed sown in a damp, cold soil almost invariably fails to germinate, especially if it is fine. Spade up your beds, and let the soil lie exposed to sunshine and showers until it is in a condition to crumble readily when you apply the hoe to it. Then work it over and over until you have it as fine and mellow as possible. When seed is sown, be very careful not to cover it too deeply. A covering of soil sifted on is better than any other. Press it down with a smooth board, to make it firm enough to retain moisture on its surface until the seed has had a chance to germinate.

The Amaranthus is a plant which ought to be more extensively used by those who are fond of effects obtained by colored foliage. It can easily be grown from seed. Its foliage comes in various shades of red, ranging from light pink to a deep, dull, but very effective Indian red, with touches of maroon here and there, and a metallic overlay of luster, as if the plant had an inclination to see what could be done in the way of bronze effects. For use with clear green-foliaged cannas it is a most valuable plant, the contrast of color being fine. In masses, by itself, it is extremely effective. I wonder it has been neglected so long. But then, that's not to be wondered at, for merit, especially among flowers, often goes unrecognized. Let the gardener or some of our millionaires' estates take it up and everybody would be clamoring for it. Get the start of the millionaires by making use of it in your garden this season.

It would seem, to judge by the hundreds of letters which comes to me during the year, containing complaints of failure with pot Roses, as if these plants must be about the most difficult of all plants to succeed with. That they are difficult to grow well, I must admit. But they can be grown and flowered in the house, in winter. To begin right, you must get the kind best adapted to amateur culture. These are Agrippina, dark scarlet, Queen's Scarlet, of similar shade but with larger flowers, and Hermosa, rose. Confine yourself to these three until you have succeeded in growing them well. Give them a soil of rather heavy loam. They like one containing considerable clay. In loose, light soils they never do well. In setting out the plants, pack the soil very firmly about their roots. Have good drainage. Use five and six inch pots for young plants. Water moderately. If the soil is not rich, add some good fertilizer to it, as soon as the plants have begun to grow, but not before. Get your plants in spring, and grow them on during the summer for winter use. Cut off every bud that appears. Cut back the branches in July, and again in September, to make the plants bushy and compact. All along, during the summer, wage incessant warfare against red spider and aphids—

two pests which will be sure to injure your plants if not fought mercilessly. It is well to keep the plants out of doors in summer, and it will be an easy matter to shower them daily, all over and thoroughly. This will keep the spider in check. You can get the start of the aphids by using the Ivory soap preparation spoken of in this department last month. Use it as a preventive, as well as a cure. Dip your Roses in it at least once a week. Unless these instructions are followed out carefully, your plants will fail to grow well. Whoever grows Roses must be willing to fight for them. In the fall it may be necessary to shift the plants to larger pots. Perhaps the old pots will be large enough if fresh, strong soil is given. Roses as a general thing, do not require a great deal of root-room. When they bloom, cut back the branch which has borne flowers to some strong branch-bud. This will induce the plant to send out another branch from this bud, on which most likely flowers will be borne, though they will not be as large as those borne on the first branch.

Cut-Leaved Weeping Birch.

This ornamental tree has been a great favorite. Its tall, slender, but vigorous growth, gracefully drooping branches, silvery bark, and delicately



Native Iris.

cut foliage have made it exceedingly popular. But, in this vicinity (Rochester, N. Y.), it has suffered greatly from the attacks of a borer; a large number of full-grown, beautiful trees have died.

The first sign of the work of the borer is noticed in the top of a tree, where the foliage appears thin. In a few years the whole tree is dead. The insect works just beneath the outer bark, gradually girdling the trees. When the trunk is wholly encircled, of course, the tree dies.

Dandelions.

Now dandelions in the short, new grass, Through all their rapid stages daily pass; No bee yet visits them; each has its place, Still near enough to see the other's face; Unkened the bud, so like the grass and ground In our old country yards where thickest found.

Some morn it opes a little, golden sun,
And sets in its own west when day is done.
In a few days more 'tis old and silvery gray,
And though so close to earth it made its stay,
Lo! now it findeth wings and lightly flies,
A spirit form, till on the sight it dies.

John Albee—The Sheltering Arms.

Spring hangs her infant blossoms on the trees,
Rock'd in the cradle of the western breeze.
—*Cowper.*



Japan Iris.



WEBSTER SCHOOL BEFORE IMPROVEMENT.

Improvement of School Grounds.

WEBSTER SCHOOL, CAMBRIDGE, MASS.

What some people call fads at first often develop into a necessity. The treatment of school grounds has recently engaged the attention of educators and enterprising citizens with marked results in the improvement in the neighborhood in which the improvement has been made.

One instance of such progressive development is displayed in the Webster School, Cambridge, Mass. Situated in a residential district, the children being largely of foreign parentage, an effort has been made to brighten the surroundings of the school.

Formerly the school yard was wholly paved with brick and an iron fence followed the street line, the whole yard presenting a barren waste with the exception of a few trees struggling in the brick.

The principal, Col. John D. Billings, conceived the idea of adorning the yard and, enlisting the Cambridge Park Commission in the idea, they procured a plan from their landscape architects for the improvement.

The iron fence was removed and the brick pavement between building and street was replaced with good soil. Small lawns were called for, surrounded by hardy shrubs such as Spiraea, Japanese roses, viburnums, etc., which are easy of growth and require little care.

The space immediately adjoining the building was divided into small beds edged about with brick, with the intention of giving the children an opportunity to experiment in the growth of plants. This area at present is filled mostly with annuals, which flower quite profusely.

Vines were also planted against the building and thus far have relieved the barren effect. At one side of the yard is a high board fence against which is a narrow, one foot wide strip, filled with herbaceous plants and perennials. There are 755 pupils in the school and the question of depriving the children of play-room is answered by the fact that there is no rough play or running allowed during recess time, as many of the children in the younger classes were injured. It is a grammar school of all grades.

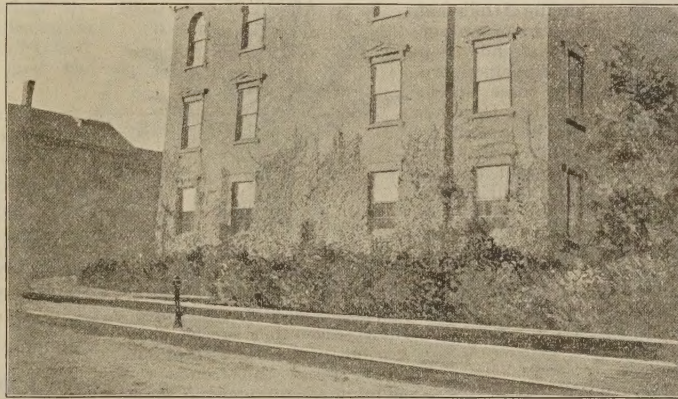
The area allotted to the lawn is small, and yet it is regarded with pride by all the children, it being the first effort in this direction, and the best grammar school yard in Cambridge. The principal notes no treading of the lawns, neither do the children pick the flowers.

To buy seeds and materials a collection is taken in the school amounting to between thirty and forty dollars each year. The care falls to the janitor, who takes particular pride in its appearance even during the summer months, watering and tending the lawns and plants. As an incident of the influence of the change in the grounds and the principle, it is worthy of note that a small square in the vicinity was usually devoid of grass and badly mutilated, while now a good lawn and growing shrubs greet the eye.

Taking this effort as an example of what can be done to beautify school grounds of small area in cities, does it not show the opportunity that could be made of the larger country school grounds? Not long since a teacher remarked that it would be a great help to her in teaching nature study if she could have a small plot in which to grow spring bulbs, seeds, etc., instead of relying wholly upon the methods of germination now used. Certainly the methods of teaching have advanced in the last ten or fifteen years, and why should not the surroundings of the school contribute in its silent way to the better and larger growth of the child. Impressions in childhood of pleasant surroundings will surely develop the larger mind and sympathetic response to all improvements made by the city authorities or local societies. It is education by example.—Herbert J. Kellaway in *Park and Cemetery*.

Adornment of School Grounds.

That the school grounds should be made the most attractive place possible has long been incorporated as one of the essential articles of my pedagogical creed. To every man that asketh a reason for this faith that is in me I gladly give answer. Man's taste and character are in part



WEBSTER SCHOOL AFTER PLANTING AND REMOVING FENCE.

fashioned by his surroundings. The better tendencies of head and heart draw new life from environments marked by purity, taste, and refinement. Beautiful surroundings render the school itself more attractive and serve as a silent reminder that the room should be kept neat and inviting. To enlist the aid of the boys and girls in improving and ornamenting the school grounds means to cultivate *esprit de corps* which makes them more loyal to the school and its interests. The joy coming from helping make things go in their little republic, will lead to future loyalty in the broader citizenship of community, state and nation. To the children whose parents have neither time nor means to provide their homes with things of beauty, an attractive school yard becomes a joy forever, and no matter how humble the home, it gladly greets every effort to cheer and brighten the life of the children. A beautiful school yard in a village or town means improved home yards and better kept lawns, and such a yard always means added interest and readier aid on the part of patrons.—J. W. Livingston.

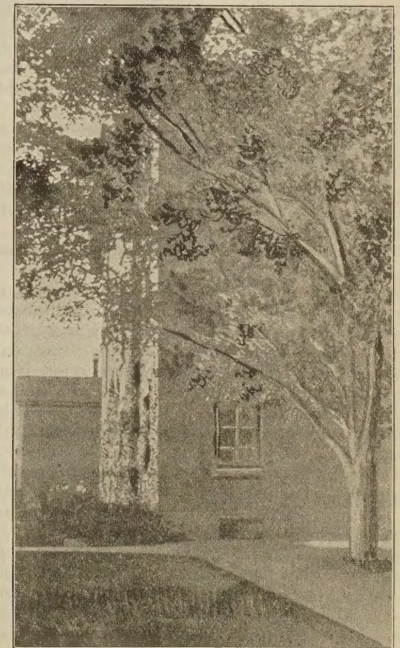
The school gardens in Germany are attracting the attention of educators in this country more and more. The imperial botanical gardens in Germany have sent to the university at Berlin 100 different plants and seeds to start a school garden. The central garden at Koln supplies sixty-five schools with 1,000,000 plants of 200 varieties. The central garden of Leipzig supplies eight high schools and forty-four common schools with 600,000 plants of 250 varieties. Each teacher in the public school is allowed two hours each week for garden work. Pupils furnish their own tools.

Work for Club Women.

That day will be fortunate for America which shall see the great body of federated club women united in a concerted movement for civic beauty. When we consider that the National Federation has members not only in each city and town, but in every village and hamlet in the United States and Canada, we can have some realization of what four million women, all working with one purpose in view, might accomplish from one biennial meeting to another or from one decade to another if united.

When these four million women shall have learned that outdoor art means not only a knowledge of landscape gardening, but a knowledge of two other of the great arts, namely, architecture and sculpture, and the beauty resulting when these three are brought into proper juxtaposition, then will America arise and demand that a practical understanding of these arts be taught in her schools and colleges. The perfunctory teaching of the day is not wanted, however, but an instruction that will enable a graduate to lay out his home grounds with relation to the buildings and the trees about it.

Children should be educated to have a proper regard not only for the premises on which they live, but for their share in beautifying the public school grounds, teaching them that when they deface its walls, break its windows, pull up its flowers and destroy its trees, they are despoiling their own property, a very foolish thing to do, to say the least. I am told that the National Federation of Clubs has seriously considered a national movement along this line, but the managers of more than one biennial meeting have decided not to take up a new work until that in hand has been accomplished, deeming it unwise to have too many irons in the fire at once. Their work of establishing free traveling libraries is well under way, and the growing restlessness of club women to take up something besides purely literary work makes a new departure necessary for the very existence of clubs.—Jessie M. Good in *"The Work of Civic Improvement."*



A CORNER, SHOWING PLANTING AND FLOWER BED.

For Shady Nooks

On Home or School Grounds.



Osmunda Cinnamomea.

When planning to improve the home or school grounds, the question often arises as to what plants will grow in certain shady locations. Many species of plants will do well when only partially shaded, but the number of those which will grow in deep shade is limited.

Our native ferns like the shade, and will thrive where grass cannot be made to grow for want of light. On the north side of a house, or of a high fence, they will flourish, and also under overhanging trees, if other conditions are favorable.

Ferns like a good, rich soil, a mixture of sand and leaf-mold. If possible, when transplanting them from the woods, take some of the soil in which they grew. They are very accommodating plants, however, and will make very satisfactory growth in common garden soil. Most species of ferns naturally grow in damp or moist places, and in hot, dry weather they should be given considerable water.

It is advisable to transplant ferns as early as possible in the spring, as soon as the fronds appear, but they can be successfully moved later if care is taken in the process. If the fronds should die down, the roots will establish themselves before winter; the next spring the clumps will make a fine showing and grow stronger and more beautiful every year.

Many species of ferns do well on rockeries in shady places. With them could be planted mosses and some of the dainty plants you will find growing with them in the woods. Trailing vines can also be planted on the rockery, native ones from the woods, or cultivated ones, such as *Tradescantia* (Wandering Jew), money wort, and the old-fashioned *Vinea minor*, also called periwinkle and myrtle.

The *Osmundas* are a fine group of large, tall-growing ferns, the fronds of which grow in circular clumps. They are adapted to cultivation and make beautiful ornaments for the garden.

Osmunda cinnamomea, or cinnamon fern, does well under cultivation, though it sometimes dies down during the hot, dry weather of July and August. The fertile fronds, growing up in the center of the plant and completely covered with brown spore cases, give the fern its common name. Our illustration is from a photograph of a plant growing in the garden of Mr. H. W. Britcher, of Syracuse, N. Y.



Osmunda regalis.

neglected fields and along old rail fences, but it will grow in the shade. The plant is graceful in growth and resembles *O. cinnamomea*, but the spores are borne on pinnae near the middle of the frond, instead of on separate fronds as in the cinnamon fern. The three species of the *Osmunda* can be grown together, with good treatment, and the plants will improve with cultivation. When well established, handsomer fronds will appear each year.



Osmunda Claytoniana.



Aspidium acrostichoides

Aspidium acrostichoides, the Christmas fern, is not as graceful as some other species, but it is one of the hardiest of our native ferns, the fronds remaining green under the snow all winter and coming out fresh in the spring. It improves with cultivation, the fronds almost rivaling the Boston and Sword ferns of the florist.

Adiantum pedatum, or Maiden hair fern, is one of the daintiest and prettiest of the family. It is often found growing in dense masses in the woods. This fern has an



Adiantum pedatum.

Osmunda regalis, the Royal fern, grows naturally in wet places, but it will flourish in common garden soil, though not with the luxuriance that characterizes the plant in its native haunts. The fertile portion of the frond tips the sterile part, giving a unique appearance to the plant.

Osmunda Claytoniana, Clayton's fern, will often be found growing in

airy poise, a lightness and dainty grace, unrivaled by any other of the family. It will grow in shade or sun, but needs considerable moisture.



Pteris aquilina

Pteris aquilina is our common brake. The fronds are large and rather coarse, but the way in which the plant adapts itself to cultivation and its vigor of growth make it a desirable species for shady nooks. Give it plenty of room, for it is inclined to spread and is apt to crowd out other plants.

These are but a few of our common ferns; many more species can be found in our woods and almost all of them will bear transplanting to the shady nooks of our gardens or city lots, where they will not only make the bare spots beautiful, but will lead us more and more to appreciate the grace and beauty of our native plants.—F. B.

Spring.

RUTH RAYMOND.

Winter was long when the snow-flakes were drifting
Over the valley and lea,
Dark were the skies when the storm-clouds were
shifting,
Flinging their gloom to the sea.

Now there's a glow on the crest of the mountain,
Gather the heavens their blue;
A bold bird dips in the spray of the fountain
Pluming his feathers anew.

Down in the garden a snow-drop is peeping
Forth from its banners of green,
Brooks in the meadow go laughing and leaping
Giving their joy to the scene.

Rosy the east where a fleece-cloud is sailing
Light as a bird on the wing,
Robin to robin from maple is calling,
Lo, it is Spring. It is Spring.

Malmaison.

"The hopeful bud of a ruddy rose."

For earliness, hardness, and profusion of bloom, this old and exceedingly sweet rose stands pre-eminent. Has it not a history, like, in romance, the *Marechal Neil*? There seems to be something like a tradition connecting it, in some way, in the mind of the writer, with the early fortunes of Josephine, the Martinique girl, afterwards wife of Napoleon I. and Empress of France,—whose sad destiny excites our sympathy.

Souvenir du President Carnot is another beauty, which with *Kaiserin Augusta Victoria* and *Etoile de Lyon* challenge our admiration with and for *Souvenir de Malmaison*. The large size, chasteness of color, and profusion of bloom, make them great favorites, and in universal demand here in Eastern Virginia. My experience with Tea roses in this section is that the best winter protection is the drawing up the earth deeply around the roots and leaving the tops exposed. Hard freezes may kill immatured wood, but the balmy spring sun will generally bring them forth in vigor.

There are other varieties, besides those named, that are equally meritorious, and which I may be permitted to notice hereafter, and from experience.
—E. R. N., Oceana, Va.

Horticulture

At the Pan-American Exposition

At this time, when the Pan-American Exposition at Buffalo is opening like a great blossom begotten by the sunshine and storm of a hundred years of American progress, it is interesting to all lovers of Nature to estimate what part in the perfection of our civilization is filled by flowers and trees. The Pan-American Exposition is avowedly an epitome of the times in America: it is not a World's Fair, it is not an *Exposition Universelle*, it is Pan-American—and as such nearer to our vital interests than any conglomeration of foreign products however great. In many matters the management of this latest exposition has been conservative and discriminating from the first. It has been felt this policy would tend towards the "greatest good of the greatest number" and individual preferences and prejudices have heroically been put aside with this aim in view; therefore, —all lovers of flowers may rest assured that it was "without prejudice" that horticulture has been given such a prominent place, such an amount of attention at the Pan-American Exposition. It enters largely into the nomenclature of the exposition. We have "The Court of Lilies" and "The Court of Cypressess," each in most important positions on the plan. The "Rose gardens" are to surpass anything ever attempted in America. Here will be seen the virginal (and aboriginal) "Cherokee Rose" with its pearly petals of purest white; the "Rose of a Hundred Leaves" which shades the galleries in New Orleans; the "Prairie Rose" of the west and the gorgeous products of hybridization; the "Monthly Roses" with their loose petalled blossoms, and the "China Roses" our great great-grandmothers wore with chene, taffetas and calashes. Here will blossom the "Damask" and the "Provence" roses, the "Briar Rose" and the strangely diversified "York and Lancaster" Roses, —and these but to show there is no invidious discrimination against the members of the one great family, for the collection will, in the main, be representative of all that is latest, best, and most perfect of the rose grower's science and skill. The "Woman's Building" at the Pan-American stands midway between the "Rose gardens" with their circular plots and the "Horticultural Exhibit"—the way of the American woman is proverbially strewn with flowers, and her bed one of roses, in which there is not even the crumpled leaf, and we can not help feeling this "Woman's Building" is happily placed.

There will be in the "Horticulture Building" a wonderful display. It is believed that all the fruits of the different countries represented at the exposition will be shown here, fresh, each day. A wonderful system of refrigeration has been arranged and the most perfect results are expected—here too will be displayed every article and appliance known to the horticulturist.

The exhibition of nursery stock, including orchard and ornamental trees, shrubs, and evergreens will be the finest ever seen in the American continent, and probably in the world.

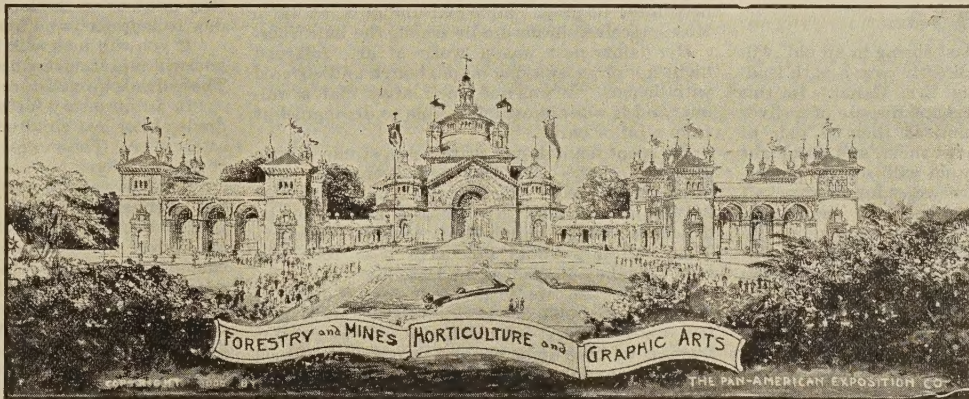
Already the early flowers, tulips, snowdrops,

crocuses, scillas siberica and daffodils are piercing the plots with their spear-pointed leaves, and from this on until the swamp maples are blood-red in the bush there will be a constant succession of timely blossoms in the conservatories and grounds. Semi-tropical ferns, palms, trees, vines and floral shrubs are now arriving at the Pan-American grounds by the car-load and the *plaza*, *courts*, *parterres* and *syloan mazes* will soon be a blaze of beauty.

An individual, and certainly most interesting exhibit, will be made by Miss Elinor McCord of Monterey, who is sending a large collection of pressed California wild flowers and sea mosses, together with floral paintings. This charming exhibit will be in the California department. The biggest logs in the Western Hemisphere are coming to Buffalo this summer and there is to be a full collection of Alaskan flora there.

All the secrets of the woods will be revealed and vegetable products of which little is known will be introduced to the multitude. For example *Mate'* tea, infused from the leaves of the South American shrub called variously by the natives *yerca*, *yerba*, or *yerba mate'*, will be exploited. This tea is invigorating but does not inebriate. The plant is an evergreen, growing wild along the Paraguay river. The pioneer Jesuits adapted certain modes of cultivation which greatly improve the plant and these have been slowly copied by the native cultivators.

Cassareep, a condiment, and by-product of the poisonous Cassava, is to be shown in every stage at the Pan-American Exposition, and it may be



HORTICULTURE GROUP.

that we will acquire a taste for yet one more stimulant to appetite.

The dried fruit of California and the packed berries of Alaska, the plump peaches of the Eastern States and the sugar cane of Cuba, the passion flower fruit of Mexico and the rich red apples of Quebec will all be shown at the Pan-American Exposition, and all nations of the world shall see them.

We cannot write of the Pan-American Exposition without thinking of Niagara Falls, for that stupendous cataract dominates the mind from afar. And thinking of Prospect Park at Niagara Falls (on the United States side), and the Queen Victoria Park (on the Canadian side) one remembers that they owe much of their unsurpassable attraction to the setting of grass, flowers, shrubs and trees which environ their charms.

In a word the love of flowers has entered deeply into the life of the American people and become an integral part of it. The knowledge of flowers and flower-culture is keenly sought after, and any means by which we may acquire and cultivate this knowledge is to be seized and held fast as a very precious medium of advancement along the lines of intellectual and aesthetic improvement.

—Jeanne d'Arc.

The Horticulture Building is a magnificent structure, well adapted for the purpose and fully lighted.

The Horticultural Building.

The building to be devoted to horticulture is situated at the extreme western end of the Esplanade. Two large conservatories, extending from the north and south sides of the building, curve gracefully to the eastward and connect on the north with the Graphic Arts and on the south with the Forestry and Mines buildings. The Horticulture Building is 220 feet square. The roof is a great dome, with a central lantern extending to a height of 240 feet. At each of the four corners are small domes of highly ornamental design. Upon the four facades are deeply recessed arches through which are the entrances to the building. The entire exterior of the building is embellished with plastic ornamentation of intricate design, the entrance arches being particularly beautiful. The soffits of these arches are to receive elaborate frescoes, and a liberal use of color will give to the entire structure a bright and festive aspect. The exhibits to be made in the Horticulture Building will include all the popular fruits from many states and countries. A refrigerating room upon the grounds will enable the management to maintain a complete display of fresh fruits throughout the exposition season. At various times when certain fruits are at their best special displays will be made of certain varieties. Southern California will make a particularly large exhibit and the Horticultural societies of New York and other states are planning to be well represented. The displays in the Horticulture Building will include also dried and

preserved fruits and many articles and appliances used in horticulture. The outdoor displays will consist of nursery stock from all the leading nurseries in the country, including orchard and ornamental trees, shrubs and evergreens. The displays of roses will include many thousands of bushes, and all of the popular flowers will have special displays at various times during the season when they are at their best. The water gardens will be a feature of particular interest as they are now in special favor with

horticulturists in many parts of the country. Among these gardens will be a small lake specially heated for certain tropical plants in order to give them a thrifty growth before the opening of the exposition. In the conservatories will be other displays of tropical plants such as to interest every lover of flowers and ornamental foliage.

Special exhibitions of cut flowers at the Pan-American will be held on the following dates:

Carnations, May 1st to 8th inclusive; Tender Roses, May 21st to May 25th inclusive; Peonies, May 28th to June 7th; Hardy Roses, June 18th to June 25th inclusive; Sweet Peas, July 23d to August 2d inclusive; Gladiolus, August 6th to August 17th inclusive; Asters, August 27th to September 7th inclusive; Dahlias, September 17th to 27th inclusive; Chrysanthemums, October 22d to October 31st inclusive.

The schedule of the Classes for the series of Flower Shows which will be held as above has been issued in very tasty pamphlet form and all those who are interested in these exhibitions who do not receive a copy will be gladly furnished the same by forwarding their request to William Scott, Horticulture Building, Pan-American Exposition grounds.

No thought or labor will be spared to make these exhibits in keeping with the beautiful Exposition of which they are a part.

Nature Study

The Bluebird.

I know the song that the bluebird is singing,
Out in the apple-tree where he is swinging:
Brave little fellow! the skies may be dreary:
Nothing cares he while his heart is so cheery.

Hark! how the music leaps out from his throat—
Hark! was there ever so merry a note?
Listen awhile, and you'll hear what he's saying,
Up in the apple-tree, swinging and swaying:

"Dear little blossoms, down under the snow,
You must be weary of winter I know;
Hark, while I sing you a message of cheer—
Summer is coming! and spring-time is here!

"Little white snowdrop! I pray you, arise;
Bright yellow crocus! come, open your eyes;
Sweet little violets, hid from the cold,
Put on your mantles of purple and gold;
Daffodils! daffodils! say, do you hear?
Summer is coming! and spring-time is here!"

—Emily Huntington Miller.

May Bird Talk.

BY NANNIE MOORE.

I was much interested last spring in an old willow-stump, which grew directly over a path leading to some locks on the Erie Canal. In this stump were two holes, perhaps the size of a silver dollar. The first time I noticed them a pair of blue-birds were busy about them, and I thought "Now I know where a couple will set up house-keeping this spring." Every day for two weeks I visited that stump, and watched with amusement the efforts of a pair of sparrows to turn out the blue-birds. Finally, on my fifteenth trip, I discovered that somebody (let us hope not a boy) had split open the upper hole and torn out the nest! I did not go again for a week, and then, to my surprise, I found four new holes, this time about the size of a cup. All the ground was strewn with fresh chips, and I sat down to watch developments. An hour's patient waiting brought the carpenters, and, as I fancied, some guests, for with the familiar harsh cry, five flickers settled down on the stump. Three, the males, remained seated on some neighboring branches, while the two females bestowed much attention on the lower of the two holes, going in and out and talking the matter over. After a while they all flew off, and on investigating I found that the upper hole went in but a few inches, while the lower one was the usual deep nest. The flickers built and reared their young in the lower hole, while one pair of friends built, or rather hollowed out a home in a tree not far away. The upper hole was not wasted, for a pair of English sparrows used it for their family. Near the roots of the tree a song sparrow had her home, and I watched six little speckled eggs become six little songsters and finally fly away. All this bird life flourished happily just where a dozen or twenty men and boys passed daily not to mention those bird lovers who haunted the spot to watch the pretty ways of these little creatures.

**

There is a school-house where at least 200 children go till late in June. Yet a mother robin brought up a little family of four right at the door-way, and a pair of more rare and shy cedar-birds built on a branch of a maple that overhung the yard. I was glad to see our children becoming more careful of their feathered friends and making them feel at home in their haunts.

Bob White.

There's a plump little chap in a speckled coat,
And he sits on the zigzag rails remote,
Where he whistles at breezy, bracing morn,
When the buckwheat is ripe, and stacked the corn:

"Bob White! Bob White! Bob White!"

Is he hailing some comrade as blithe as he?
Now I wonder where Robert White can be!
O'er the billows of gold and amber grain
There is no one in sight—but, hark again:

"Bob White! Bob White! Bob White!"

Ah! I see why he calls; in the stubble there
Hide his plump little wife and babies fair!
So contented is he, and so proud of the same,
That he wants all the world to know his name:

"Bob White! Bob White! Bob White!"

—George Cooper.

Some Bird Homes.

MARY HAZEN ARNOLD.

Though I am old enough to be married my heart is still young and I am much interested in Nature, especially birds. I enjoy your articles on Nature very much.

A friend and myself spent many pleasant hours last summer watching the home of a pair of tiny humming birds, which one of us discovered high up on a limb of a maple in a sequestered nook by a running brook. The cautious mother was just completing her cradle when we first saw her—and kept as anxious and careful watch of the little nest under its green maple leaf umbrella as little Moses received in his cradle among the bulrushes.

Her dainty nest was a work of art, fastened high up on a swaying maple bough and covered with lichens. It was not much larger than a walnut, and it was almost impossible to distinguish it from a bit of bark.

We spent many hours seated on a stump a little distance away. Two tiny eggs were laid—and after a time two tiny heads peered over the edge of the little home with wide open mouths for the delicious tidbits which the parents brought. There certainly would not have been room for both had they quarrelled the least bit.

Finally when we visited our friends one day, we found the home deserted, and after waiting a few weeks longer to make sure that we did not trespass we bore home the empty cup and placed it among our treasures.

On the same street in Woodland a wood thrush had built her nest, and placed a striking decoration upon it. She had found a large piece of cloth, originally white, but now gray, and festooned it gracefully about the outside of the nest, as one drapes a shelf with silk, thus entirely covering the outside of the nest. She looked very odd as her bright eyes peered out over the tapestry.

But alas, her vanity caused the ruin of her home! When next we passed that way, the bushes were broken down, and the nest had disappeared. The hanging festoon had caught the eye of some boy who, evidently was not a friend of birds and the place was desolate.

Be Kind to the Birds.

On the playground fence a teacher put a cookie for the birds, and told her pupils of the little creatures' value and intelligence. Next day her most unruly boy took from his lunch one-half of his cake and put it on the fence. Kindness is contagious and example is powerful. That fence has become a favorite perch for many birds even when the yard is filled with noisy boys, and woe betide whoever injures one. Can any one doubt that every one of these boys will be a better and kinder man, and a more useful citizen for such tuition and such a teacher? That teacher states: "I find teaching kindness to animals the best kind of discipline, especially for rough little gamins."—C. A. Hamlin, N. E. Journal of Education.

Little bird, little bird,
As you sing upon your bough,
A hundred hearts are happier
That you are singing now;
Though the sun is shining brightly,
Or is hiding in a cloud,
You give the world your sweetest songs,
And sing them brave and loud.

—Julia Anna Wolcott.

A Story of the Leaves.

BY BERTHA DE GRAISON HESS.

"Mamma won't you please tell me a story about the trees," asked Gladys May, as she drew her little chair close to her mother who was sewing on some soft white stuff. "Your stories are ever so much better than fairy stories," she added. Mamma May smiled and looked thoughtful for a moment, then said: "If you should break off a twig from any tree or shrub you would find it covered with little hard knobs.

"These are the prison cells where mother tree keeps her leaf children safe from harm. The cells are lined with the softest, whitest down, and are covered with water proof scales to keep out both frost and wet.

"Here the baby leaves lie and sleep snug and warm sometimes for several years, or until Mother Tree calls for them to come out into the sunlight to grow and work." "Work! mamma," exclaimed Gladys in surprise.

"Yes, dear, the leaves are mother tree's lungs; through them she breathes and they must work to supply her with plenty of fresh air. Then too, they must be on the lookout to gather up rain and dew to help feed and nourish her.

"If you will look at a leaf through a microscope you will find it covered with tiny mouth-like cells. These drink up moisture like a sponge.

"It is necessary for mother tree to keep hundreds of her leaf children close in their cells year after year. These are what a soldier would call the reserve force.

"Sometimes a fire or insects strip Mother Tree of her bright green workers; should this happen, then she calls on her prison children to come quickly and cover her poor denuded limbs. If such a calamity should befall Mother Tree a few times in succession her reserve forces would become exhausted and then she would soon wither and die.

"In the autumn, when the work of the leaf children is finished the frost fairies come and paint them all in gorgeous hues. Slowly they fade from yellow and red to russet and brown. Then comes the north wind and rocks Mother Tree to sleep; she nods and nods, the leaves lose their hold and one by one they softly drop and nestle close to their mother's feet to keep her warm for the winter sleep.

High up 'Mid Leaves of Sycamore.

High up 'mid leaves of sycamore,
Now stirring—now at rest,
Behold the gold-flaked oriole,
Perched on its hanging nest!

List to its mellow, cheery notes
That through the woodlands ring,
And see it leap from bough to bough,
With brilliant flashing wing.

Sweet, darling songster of the woods,
Bartered at Fashion's mart!
Cruel the hand which brings thee down,
More cruel still the heart

Of fashion's votary who feels
No shrinking, quivering dread,
To see thy plumage ruthlessly wrecked,
That vanity be fed!

—Anna Garner, in *Dumb Animals*.

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Our Little People

A little mouse got on the shelf
To get a piece of cheese.
He got some pepper in his nose
And that, sir, made him sneeze.

Making Up.

Yes, Bessie an' I really quarreled;
She wanted to play with the dolls,
An' I wanted to ride on the "teeter"
Or play with our new croquet balls.
We argued and quarreled and argued,
An' then Bessie gave up to me;

Then, of course, I gave up to Bessie,
'Cause she is the littlest, you see.
Well, somehow, our quarrel was over;
We kissed the bad feelin's away;
We played what we both of us wanted,
An' then we were happy all day.

—Mrs. Frank A. Breck.

Elsie's Summer at the Lake.

Elsie Delany was the only child of a prominent lawyer in one of the large cities of New York state. One summer papa bought a lovely little cottage down by the lake just a few miles from the city.

Elsie, like any girl, was delighted when papa took her down to inspect it one day.

There was the long, broad piazza overlooking the lake—a cosy, vine covered piazza where any one might find a comfortable seat with a refreshing breeze.

A few days later papa, mamma, grandma, and Elsie took possession of the cottage.

"How sweet and cosy!" grandma exclaimed as she came in. "Dear, I shall love this place!"

"Oh, what a beautiful view we have here," cried mamma, from the front porch.

Spread on the table, on the porch, they found a good lunch prepared by Bridget who had come down earlier in the day to open the cottage and make ready for their arrival.

"What beautiful scenery!" "How lovely and charming nature is!" they exclaimed as they sat enjoying the lovely sunset and the dainties of the table, and talking over plans for the summer.

Every day brought pleasure for one and all.

Papa ran down whenever he could get away from his office in the city.

Elsie took pleasant excursions up and down the lake; and such delightful hours as she and papa spent in the woods hunting all sorts of curiosities about the lake, especially for Elsie's study of botany.

Grandma in her "nook" on the porch, with her knitting in her lap, enjoyed everything in a quiet way.

One bright morning in late August, papa planned to take the family down the lake on the new boat, "Sunbeam." He thought it would be pleasant to stay all day and return by the moonlight.

"Oh, what a delight it will be!" they all thought. "Couldn't grandma go?" No, she was not able to stand so much excitement and then there was Bridget gone to the city for a two or three days' visit with her sister. Mamma said, "Never mind, I will stay." But Elsie, a lover of fun and frolic, yet a thoughtful girl, wouldn't see mamma lose such a lovely day as this would be.

"Papa," she whispered, "take mamma, I'll stay with grandma. It will be a real pleasure."

By coaxing papa she at last succeeded in her plan, and by 11 o'clock papa and mamma were fast going out of sight in the shining new boat. Elsie sat in her chair on the porch—Browning's poems in her hand to read to grandma as she knitted—her eyes off on the little speck just seen

in the distance. She sat this way for some time thinking what a pleasure it would have been, had she gone.

But "Pleasure is found everywhere, if we do what we find to do."

Mamma's warm kiss, papa's hug, and "my dear little Elsie," grandma's sweet smile and the thought that she had made somebody else happy made Elsie the happiest of girls that day.

The remainder of the season brought many pleasures and at the end of the summer when Elsie went back to her city home she found one lesson she had learned was that true happiness is found in making others happy.—Written for "Our Little People," by Ruth L. Curtiss.

Two naughty dogs chased two green frogs
Into the brook one day.
Two little girls with golden curls
Drove the naughty dogs away.

Tinkum Tidy.

Tinkum Tidy is my best known friend. Tinkum Tidy loves me and I love Tinkum Tidy. Why should I love him when he's only a dog? Because when he pays me a compliment I know he means it, and this can not be said of all the animal race—not even of those who think themselves better than dogs.

I call him Tinkum Tidy for Joel Chandler Harris' little boy who traveled with a gander when, of course, he should have had a dog.

He is a handsome fellow of shepherd blood—better than fifty poodles, if his blood is plebian, which I do not mind in dogs, for their blood "don't allers tell."

He has sharp ears and his eyes are sharp also, and he always lets me know when anyone is coming in time for me to peep through the curtains to know whether I'm at home.

Tinkum Tidy is a very small dog; I had a large dog, as a little person should have, but he was discourteous to a neighbor, and now waits for Tidy on the "happy hunting grounds." But I hope it may be long ere Tinkum Tidy joins him, for none other would sympathize with me as he did when some stray pigs stole into the yard and rooted up my pansies. While I wept he gallantly assisted the wicked creatures out by their ears, and he doesn't let them steal in any more.

This is because he loves me and this is friendship. Have you such a friend?—Ethel-Wynn Scott.

How the Chinese Do Things.

Everything relating to the Orient is of interest. The Chinese do everything backward. They exactly reverse the usual order of civilization.

Note, first, that the Chinese compass points to the south instead of the north.

The men wear skirts, the women trousers.

The spoken language of China is not written and the written language is not spoken.

Books are read backward and what are called foot notes are inserted at the top of the page.

The Chinese shake their own hands instead of the hands of those they greet.

The Chinese launch their vessels side ways and mount their horses from the offside.

The Chinese begin their dinner with dessert, and end with soup and fish.

Apple Blossoms.

"Why do they come? I know, I know,
I guessed their secret long ago.

They put on their dresses of pink and white,
And come when the days are long and light,

And smile, and smile

For a little while,

To tell the children that, some fine day,
When summer is hurrying fast away,
Rosy apples will hang up there
Just where the bonny blossoms were."

Boys Ought to Know,

That a quiet voice, courtesy and kind acts are essential to the part in the world of a gentleman or gentlewoman.

That roughness, blustering and even foolhardiness are not manliness. The most firm and courageous men have usually been the most gentle.

That muscular strength is not health.

That a brain crammed only with facts is not necessarily a wise one.

That the labor impossible to the boy of fourteen will be easy to the man of twenty.

That the best capital for a boy is not money, but the love of work, simple tastes and a heart loyal to his friends and to his God.

Wanted.

In one hundred thousand households in America a willing, sunshiny daughter, who will not fret when asked to wipe dishes, or sigh when requested to take care of baby; a daughter whose chief delight is to smooth away her mother's wrinkles and who is quite as willing to lighten her father's cares as his pocket; a girl who thinks her own brother quite as fine a fellow as some other girl's brother. Constant love, high esteem and a most honored place in the home guaranteed. Employment assured to all qualified applicants. Address, MOTHER, Home Office.

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Fruit Notes.

Handle fruit as if you were handling eggs.

It is the duty of every farmer to plant fruit trees.

Cut out from the pear tree all limbs which show blight.

Most fruit growers say that clay soil is the best for the pear.

Blackberries are a profitable berry to raise for the market.

The best soil for the raspberry is a rich, well drained, deep soil.

The number of known species of plums runs up into the hundreds.

Land that will produce grain and vegetables will grow blackberries.

Plums should be thinned to about six inches apart after the June drop.

Plant different kinds of fruit trees, so as to be sure of a crop of some kind.

Pears and plums are just as hardy as apples, and just as valuable to raise.

Strawberries will grow in every state in the Union. Have you a bed of them?

Fruit trees require to be cultivated and pruned, but they will repay all care and attention.

Training raspberries and blackberries on trellises is recommended by some growers.

Strawberries give the greatest yield and the largest berries when grown in rich, well prepared soil.

When fruit has been thoroughly thinned, it attains the largest size, greatest beauty and deliciousness of flavor.

In the market, buyers sometimes prefer small but fully ripened strawberries to larger ones picked too green.

The grape is considered the most healthful of all fruits. Everyone who has a garden, a yard or a wall can grow grapes.

In starting a young orchard look after the trees often and wherever a limb is found crossing another limb, cut it out.

Plum trees should be sprayed with Bordeaux mixture, but it should be weaker than for apples, or it will burn the foliage.

Apple, pear and plum trees should be planted in every poultry yard. They will afford shade for the fowls, and the poultry will destroy many insects.

Plum trees do not generally require as much pruning as apple trees. Pruning should be done as early in the spring as possible, before the sap starts.

There is no section of country where some variety of every kind of fruit will not do well. Experiment with fruit until you find varieties suited to your locality.

Most plums should be picked for market a few days before they are thoroughly ripe. Even for home use they are better just before they are perfectly ripe.

Strawberries.

Mr. James Wood of Mt. Kisco, N. Y., in some remarks before the "New York Farmers," spoke of strawberries as follows:

"Strawberries grown in this latitude are much better than those grown in the South. Southern berries are deficient in quality, and as you journey further and further northward you get them better and better, until you get your own; and better than your own are those grown still further north. Those of you who have eaten strawberries grown in Canada have eaten better fruit than you ever ate grown in a southern or middle state. Those of you who have eaten strawberries on the other side of the Atlantic have found the highest flavor and best quality in those grown in Scotland, and if you went to the extreme north of Scotland, you found them better than they were in the south. I do not hesitate to say that the best strawberries I have ever eaten were produced on the borders of the Arctic Circle, in Norway. The strawberries of Denmark are better than those grown anywhere on the continent of Europe further south.

Injurious Insects.

V. H. LOWE.

The forest tent caterpillars were again very abundant during the spring of 1900, causing serious injury to forest, shade and fruit trees. Arsenite of lime, arsenate of lead and Paris green were successfully used in combating them. The application was more effectual when made soon after the caterpillars had hatched than after they had become half grown. In villages and cities they were dislodged by streams of hydrant water and prevented from returning by sticky bands or other obstructions fastened about the trunks of the trees.

In some sections of the state the fruit bark beetle has caused serious injury by working in the bark of healthy fruit trees, especially peach, cherry and plum. The numerous punctures caused a copious exudation of sap. This injury was noticed about the first of August. Eggs and larvae were found late in the fall in the small twigs and branches. Much can be done toward controlling the insect by applying a wash to the trunk and larger limbs late in July and trimming out and burning the infested branches during the winter.

A species of mealy bug was found on quince trees in sufficient numbers to cause slight injury. It can be successfully combated by applying a solution of whale oil soap, one pound to five gallons of water.

Two species of apple leaf miners were unusually common in Western New York orchards, but caused little injury as they do not appear until late in the season.

Peaches in an orchard near Rochester were injured by the tarnished plant bug which sucked the juice from the young fruits, causing them to wither and become permanently distorted.—*Geneva, N. Y. Agricultural Experiment Station.*

Eat More Fruit.

If people ate more fruit they would take less medicine and have much better health. There is an old saying that fruit is gold in the morning and lead at night. As a matter of fact, it may be gold at both times, but then it should be eaten on an empty stomach and not as a dessert, when the appetite is satisfied and digestion is already sufficiently taxed. Fruit taken in the morning before the fast of the night has been broken is very refreshing, and it serves as a stimulus to the digestive organs. A ripe apple or an orange may be taken at this time with good effect. Fruit, to be really valuable as an article of diet, should be ripe, sound and in every way of good quality, and if possible it should be eaten raw. Instead of eating a plate of ham or eggs and bacon for breakfast, most people would do far better if they took some grapes, pears or apples—fresh fruit as long as it is to be had, and after that they can fall back on stewed prunes, figs, etc. If only fruit of some sort formed an important item in their breakfast, women would generally feel brighter and stronger, and would have far better complexions than is the rule at present.

Fertilizers for Peach Trees.

In some fertilizer tests in Georgia to determine the best combination for peach trees, it was shown that a mixture consisting of four pounds of acid phosphate and one pound of muriate of potash per tree gave the best results.

The conclusion drawn by the Kansas experiment station from their observations on the Japanese plum is that they rank with the peach in hardness. They head the list for table and market qualities. Their habit of early blooming makes the crop uncertain. Burbank is perhaps, harder than Abundance, and they are nearly equal in quality. Ogon is harder than either, but not nearly so good in quality of fruit.

Questions and Answers.

The Red Spider.—How can I get rid of the little red spider? It has bothered me this winter.—Mrs. S. M. L., Willoughby, O.

The presence of the red spider on plants indicates that the atmosphere of the room is too hot and dry. The best remedy is frequent spraying or syringing with cold water. Care should be taken to spray the under side of the leaves as well as the upper side. If the plant is of such size that it can be immersed in water, that treatment will generally be efficacious.

Pruning Dahlias.—Can I cut back dahlias in the summer, or trim off the foliage so that the plant will not grow so large, without injuring their chances of flowering?—F. G. B., Wisconsin.

Dahlias should not be cut back. They should be allowed to grow unmolested.

A Curiosity.—In reporting my abutlon, I found among the charcoal drainage, this (to me) curiosity, which I wish you would kindly explain in your magazine. When I found it the leaves were as fresh as if just picked and looked like rose leaves. It was in a roll an inch and a half in length and as thick as an ordinary lead pencil, and contained two separate cells placed end to end, and the contents were quite soft. The plant stood all winter in my window beside a rosebush; in summer it was put on the porch.

Hoping you can enlighten me on the subject, I remain,

Yours truly,
MARY G. COLEMAN.

The letter and specimen were forwarded to Dr. E. P. Felt, State Entomologist at Albany, N. Y., who replied as follows: "In compliance with your request, I return the inquiry and give a brief account of the insect below:

A LEAF CUTTER BEE.

The somewhat, ovoid, green pieces of leaves enclosing a mass of pollen showed at once that it was a cell of a bee belonging to the genus *Megachile*. The parent insect has the curious habit of cutting out pieces of leaves, frequently rose, and carrying them to some crevice, or even making a burrow in wood for that purpose, and constructing therein cells from the pieces of leaves. The bee then provisions it with a mass of pollen and deposits an egg in this food supply and closes the cell with nearly circular pieces of leaf a little larger than the top. A number of these cells are frequently found together, usually end to end. Many times an old burrow of suitable size will be found nearly filled with the provisioned cells of this little creature. There are 48 species of this genus recorded in the United States, all supposed to have this peculiar habit.

Amaryllis.—What is the proper treatment for an *Amaryllis* after it is done blooming? When is the proper time to transplant.—Mrs. M. N. S., Camden, Ind.

After blooming the plant should be encouraged to make a vigorous growth by giving an occasional supply of manure water. When growth ceases, the leaves will turn yellow and water should then be withheld and the plant allowed to die down. The resting season is usually from October or November to March or April. The pot can be put in the cellar away from the frost. In the spring bring out and water thoroughly. A bud will often appear before any leaves start. While the buds are growing keep the plant well watered and give some manure water.

Do not report *amaryllis* oftener than absolutely necessary, as they do not like to be disturbed, and often will not bloom for a year after being changed. When growth begins remove some of the upper soil, without disturbing the roots, and fill in with fresh soil mixed with well-rotted manure. They do best in a small pot; leave the upper part of the bulb and the long neck above the soil.

White-leaved Geraniums. Is there any geranium which has wholly white leaves? Which are the best varieties with white-edged leaves?—Mrs. R. E. L.

There is no variety with wholly white leaves; shoots, called sports, sometimes occur on variegated leaved plants, but they have not sufficient vitality to be perpetuated. Madame Salleron and Bijou are the best of the white-edged varieties.

Carnations.—**Hydrangeas.**—What soil is best for carnations, and what for hydrangeas?—M. E. B.

The soil for carnations and hydrangeas may consist of two parts of good loam and one part each of leaf mold and sand. A small quantity of old, well-rotted manure may be added and thoroughly mixed in.

Garden Notes

A good garden is half a living.
Every good garden should have an asparagus bed.

Flowers are not out of place in the vegetable garden.

As a rule it is a mistake to put any seed into wet, sticky soil.

Celery is one of the luxuries that any owner of a garden may always have.

Radishes, lettuce and kale come on very rapidly when the soil gets warm.

There is such a thing as too much hurry in flower-garden work. Let the soil get warm and dry.

Use plenty of seed, but save some for a second planting in case the first one is not quite successful.

Learn to live out of the garden and cellar, instead of the grocery store, if you expect to be prosperous.

There should be a small bed of herbs in every garden; sage, summer savory, marjoram and thyme.

If you have never cultivated the egg plant, try it this year. You will be surprised and delighted with it.

A succession of crops may be grown in one season, and good returns realized from a small piece of ground.

Cookies with caraway seed in them are just as good as they were in grandmother's time, and a clump of caraway takes up but little room in the garden.

Lima beans and cauliflower are not always found in the farmer's garden, but there is no good reason why they should not be grown by every one.

I believe that if I had only a very small city lot, with a back yard, I would plant a few garden peas. The green peas of the market are only a delusion and a snare.

There are some things that money cannot buy, and one of these is the freshness, or crispness, of vegetables right from the garden. No vegetables bought in the market can compare with them.

If the boy wants to plant something to bring him in some pocket money, let him have a piece of land on which to raise pop-corn. There is always a market for it at a good price, especially near a large town or city.

Small seeds cannot germinate and grow well in a lumpy soil. Before sowing your next crop pulverize and roll the surface well and see how fine a seed-bed can be made. It pays to sift the lumps from the soil for hotbed and greenhouse.

How to Fight Cucumber Enemies.

The increasing importance of the cucumber as a money crop renders timely some brief directions for the destruction of the more serious insect enemies.

STRIPED CUCUMBER BEETLE. (*Diabrotica vittata*.)

This well-known insect, with its yellow coat and black stripes on the wing covers, feeds on all kinds of cucurbitaceous plants,—cucumber, melon, squash, pumpkin, etc., and often appears in such numbers as to ruin the entire growing crop.

Remedies: 1. Plow out and destroy all cucumber and squash vines as soon as the crop is off, to destroy any larvæ that may then be in the roots.

2. Planting an excess of seed, to distribute the injury, is a common practice, as is also the system of starting the seed in pots, boxes, or sods, and transferring the plants to the field after they are well established.

3. A free use of tobacco dust, lime or land plaster about the bases of the young plants is often recommended.

4. In large fields "driving" is sometimes prac-

ticed. Before the middle of the day the farmers sow air-slaked lime with the wind, and this seems sufficient to drive most of the insects to the leeward.

5. The planting of a few large hills of squash among the cucumbers, as traps, is sometimes recommended since the insects seem specially partial to the squash.

6. Spray the plants with Bordeaux mixture and Paris green (formula 2), being careful to reach the under sides of the leaves.

7. One of the surest preventives is to cover the hill at the time of planting with a box over which is placed mosquito netting.

FLEA BEE (*Crepidodera cucumeris*.)

This insect is a common pest of melon and cucumber vines and it also attacks the leaves of potato, tomato, etc.

Remedy: Spray with Bordeaux mixture and Paris green (formula 2) as soon as the beetles appear.

SQUASH BUG. (*Anasa tristis*.)

This insect, often known as the "stink bug" punctures the leaf and sucks the juice, and the punctures seem to have a peculiarly poisonous effect, even a small number of the insects causing large leaves to wilt and die.

Remedies: 1. Protect the plants with boxes or mosquito netting.

2. The young insects are readily destroyed with kerosene emulsion (formula 3).

FORMULAS

Caution: The following formulas are for use on the cucumber. In many cases they are not adapted for more hardy plants, like apple and potato. Keep all poisons carefully labeled and out of the reach of children and animals.

Formula 1. Bordeaux Mixture.

Copper Sulphate..... 5 pounds
Fresh Lime (unslaked)..... 5 pounds
Water..... 50 pounds

Formula 2. Bordeaux Mixture and Paris Green.

Paris Green..... 1 pound
Bordeaux Mixture..... 150 gallons

Make a paste with the Paris green and a little water. Add to the Bordeaux mixture and stir thoroughly.

Formula 3. Paris Green.

Paris Green..... 1 pound
Lime (unslaked)..... 3 pounds
Water..... 150-200 gallons

Formula three is the standard remedy for the destruction of insects which eat the foliage or fruit. Slack the lime with a little water, strain and make up to the desired amount. Make a paste with the Paris green and a little water. Add to the lime mixture and stir thoroughly.—*Chas. D. Woods, Director, Ex. Sta., Orono, Maine.*

Planting Potatoes.

When should potatoes be planted? What variety is best? These questions are uppermost in the minds of potato growers at this season, and are often forwarded to the Experiment station for answer. Prof. Jones makes the following general suggestions in reply:

Potatoes in Vermont are practically grown in three crops—the early, the medium, and the late. The larger part of the potatoes grown come in the second or medium crop; but those which pay the largest profit are undoubtedly the early potatoes and the late ones.

The early crop is profitable only on warm, light, quick soils, and where there is a good local market. Such a soil, however, is not suited for a late crop. The late crop is best secured by using a vigorous, long-lived variety, of which Rural New Yorker is a type. This is planted after the ground is well warmed, say, May 10th at Burlington. It then requires very careful attention, the aim being to produce as healthy a growth of leaves as possible, and to keep them green and vigorous until frost time. This means thorough and continuous cultivation so that the field is as free from weeds in September as in June. It also means thorough

and systematic spraying, continued until late in the season. This matter of spraying has been so often advocated and so explicitly described in the station publications that it need not be dealt with here. Full instructions can always be had by writing to Burlington.

The medium crop ripens in August, and is dug early in September. It may be secured from either the early varieties of the Early Rose type, or from the late varieties like Rural New Yorker. In the latter case the medium ripening of the crop comes about as the result of neglected cultivation or insufficient spraying. In either case the yield is small, or, at least, never large. The crop is ready too late to secure the fancy prices of the early crop, and too early to be stored advantageously for winter, so that it is an all-around miss.

The moral is that a careful potato grower will grow either early or late potatoes and not be wasting his time on a medium crop.—*Vt. Agric. Exper. Sta.*

THE FAMILY GARDEN usually pays a greater profit on the labor bestowed upon it than any other portion of the farm, even when managed by the old fashioned method of small plats and beds and hand cultivation. This being the case, it can surely be made to pay a much greater ratio of profit by planning to plant every thing possible in long rows far enough apart so as to work them with a horse and cultivator, thus greatly relieving your own muscles. And the saving in cost of cultivation is only a small part of the benefit of the long row arrangement. It will naturally lead to a much more frequent and thorough cultivation of our garden crops. The important advantage of a frequent stirring of the surface soil among all our growing crops, we are convinced, is too often greatly underestimated. It is said that it pays to hoe cabbage every morning during the early part of the season, and although this may be carrying it to an extreme, we are convinced that a more frequent cultivation than is ordinarily given might prove profitable. The frequent breaking of the crust admits of a freer circulation of the air to the roots, and aids them to make the most of all the dews and rains which fall. Next to actual irrigation, frequent and continued surface cultivation aids in securing and retaining moisture, and supplying it to the growing plants.—

PRODUCING FINE TOMATOES is quite an art and one that it pays the grower to master if he expects to get much money out of the crop. Prof. Massey says that he formerly entertained the opinion, still held by some, that heavy applications of nitrogenous manures made the vines too rank and the fruit more crooked; but persistent efforts in improving the character of the fruit and the modes of culture have convinced him that with a good strain of seed no amount of manuring will make it any more irregular, while a poor strain will be irregular in any event, and that a rank growth of vine, induced by heavy manuring, simply indicates the need of more room for the plant, and a heavier crop of big tomatoes, and that heavy manuring in the hill is the best way to insure a vigorous growth of vine and a corresponding vigor and perfection in the fruit. I have also learned that small fruits grow from seeds of small fruits, and vice versa; that trimming and training the plant to a single stem lead to a smaller production of blossoms, less pollen, and a smaller crop; that the largest crops are always on the plants which are allowed to take their full natural development and grow at their own sweet will on the ground; that healthy tomatoes lying on the ground are no more liable to rot than those trained off it. No fruit is more rapidly improved by careful selection, and none more rapidly deteriorated by carelessness than the tomato. Like Indian corn, the tomato is best when the seed is produced in the same latitude and climate where the crop is to be grown, and it seldom does its best the first season when taken far north or south of its native locality. The improvement of the tomato should therefore be carried on in the locality where the crop is to be raised.

His Son's Reward

By Elizabeth Morrison

A beautiful girl sat at the drawing room window which overlooked the sea and the Cleveland Hills, but she saw neither sea nor hills. Emily Vane and her father, with the servants, had been now some five weeks at Saltburn, in a large house which Mr. Vane had rented for the summer. Henry Vane, Esq., owned a good sized mansion in Belgravia, where he had lived for the past eight years during the London season, and an estate near Nottingham, amid picturesque scenery, where he generally resided when not in London. Each summer, however, he rented his house at Saltburn; for not only Emily, but himself, too, was charmed with the quiet, beautiful watering place.

His money had been acquired abroad, and though of his family little or nothing was known by society, he was received by some excellent houses. Even a titled person does not care lightly to offend one whose income is £40,000 a year.

Emily Vane saw neither sea nor hills. Her thoughts were wholly occupied by two letters in front of her. Both had come that morning. Both were proposals for her hand. The first of them was from the earl of Seacroft, who for some time had been paying Miss Vane noticeable attentions, and who, both as regarded personal qualities and position, was indeed no bad match for any English maiden. He was yet young and fairly wealthy, and for some months—in fact, since Emily had “come out”—had been a victim to her beauty and charms. She admitted to herself that Lord Seacroft's proposal was not to be lightly set aside.

The other letter was from Mr. Hubert Wells. Emily had met him about six months ago, at a country house, since which time he had been her devoted admirer. She frankly confessed to herself that she liked his society, that she knew that he loved her. Hubert Wells was not rich and had no particular position. He had only about four hundred pounds a year, which his father, long since dead, had left him to live upon.

Emily Vane sat, looking first at this proposal, then at that. She had for the past week or two expected both, and so unsettled and doubtful was she that she had given neither suitor any chance of proposing personally. But now it had come—both on one morning! The ordeal had to be faced; the decision to be made! Her pride, her love for her father, her wish to raise the name of Vane, said “Seacroft;” yet there was a small voice underneath which whispered “Hubert.”

In her perplexity she picked up the letters, and went to see her father in his study. Emily Vane's mother had died at her birth; her father was her closest confidant. As Emily entered, he kissed her lovingly, then smoothing her hair, said quietly: “Which of the two is it to be?”

The girl gazed at him with eyes dimmed with tears as she answered blushing: “Whichever my papa likes! He always chooses for the best.”

“Well, my dear, suppose I should say Lord Seacroft? I have always wished such a husband for you—titled, yet noble in nature's best ways.”

“Yes, papa.”

“Yet I like Mr. Wells.”

Emily's heart beat a shade quicker.

“He cannot give you what the earl of Seacroft can, and what I have so often pictured you; and yet—and yet—he is his father's son.”

The girl gazed, half in fear and astonishment for her father was as pale as death and shook visibly.

“What is it, papa?” she said.

“Sit down, my love,” replied Mr. Vane. “It has only come, as I felt certain some day it would. God has brought it out in His time. I must tell

you now. Don't be afraid, Emily. It is the secret of my life which I've hidden for thirty-five years; now you must share it. I feel I should not be doing right if I let you choose to-day without telling you of it. When you have heard my story you must choose for yourself, and be assured, your choice, whichever it is, will please me. As for what you will hear, it will remain your secret and mine; I shall keep it as before, and I must beg of you to do the same all your life, even from your husband.”

Emily sat in doubt and fear, sure that the kind father who had so loved her would not tell anything to distress her, if he could help it, and yet anxious as to what such an awful secret could be.

“Thirty-five years ago a convict ship was sailing from England for Botany Bay, under the command of a brave captain and crew. There were no fewer than forty convicts on board—desperate fellows of every description—thieves, highwaymen, man slayers, all kinds of villains. Among them was one whose case had excited much interest at home, since many people believed him innocent—morally at any rate—of a crime he was said to have committed. Among a gang of poachers one night he, their superior in rank, had had the misfortune to shoot one of the keepers who had watched for them and attacked them. The shot had killed the keeper, but there was some doubt as to whose gun it had come from, and, when the convict in question was arrested and charged, the keepers swore that he had fired the shot. For himself, he knew not whether this was so; several of his fellow poachers said he was innocent and that the real culprit had escaped. His sentence however, was that of penal servitude at Botany Bay—probably the doubt alone saved him from being hanged.

“Naturally, his spirit was galled; he became morose, wild, severe in aspect as in temper, and his reputation on the convict ship was that of the worst criminal on board. He rebelled at his jailers, at his food, at his confinement, and felt ready for any dark deed. The chance soon came. The vessel was off the Cape of Good Hope, some miles away, when he first got knowledge of a projected mutiny, in which the captain, crew and jailers were all to be murdered; and the successful mutineering convicts were then to steer for some unknown point in Africa and land there.

“It was a desperate scheme, and with the mutiny he was thoroughly in unison, but not with murder. He was not yet as black as that and tried hard to dissuade his fierce companions from it, but in vain. As they persisted in their plans he felt that all he could do was to keep quiet till the time for action came; but the captain and his wife had been really kind to him, and he determined that they should not die. Yet he would not betray his companions like a coward.

“On September 8 the attack was made. He stood near the captain's cabin to protect its unsuspecting inmates. When the mutineers, having seized the watch on deck, and killed them, came rushing down, he ordered them back from that cabin; they refused to go, and a fight ensued. The captain became aroused, the alarm given, and, after a desperate resistance, the rebels were overpowered and put in irons. The captain begged of the guards to set the convict who saved his life at liberty, but they declined pretending that, in reality, he was as bad as the rest. So he was closely guarded.

“It was on touching at Perth that the captain's opportunity came. Having secured the co-operation of his mates, he entertained the whole of the guards at dinner one evening and made them hopelessly drunk. In the meantime one of his party contrived to secure possession of the keys, and in a very few moments the convict's irons had been unloosed and he was free. The captain himself came and shook hands with him ere he sent him off in the boat which was waiting for him.

“I know,” said he, “that what I have done for you is risky, and may cost me something if my part is discovered; but you saved my life, so I will take this risk to save you from the crushing

penal servitude. All I have to say to you is, get away from the coast, after you have landed, as soon as possible; change your name and appearance as much as you can; go into some honest business, and, though it is not likely, if ever I do hear of you again, let it be in such a way that will do you credit and repay me for giving you freedom tonight.”

“The tears stood in the convict's eyes as he thanked his benefactor and grasped his hand.

“Sir, I shall take your advice. My little bit of good was almost gone by the brutal treatment I have suffered—for I don't think I killed that gamekeeper, but even if I did, it was purely accidental. You have proved to me that all the kindness and gratitude are not yet gone out of the world, and I hope some day to be able to show you how I appreciate it.”

“Within a few minutes more the boat had landed him on the mainland. He watched it return to the ship, and then he departed.”

“It was six years after this, with money made in sheep farming, Joseph Turnell, the former convict, turned up at Ballarat just as the first rush of gold fever occurred. It was Turnell who bought the great tract of land which was afterward discovered to be almost wholly gold under the surface, and who sold it, after getting some thousands out of it, for a very large sum. Nobody in England or Australia, when Joseph Turnell's name was mentioned, ever thought for a moment that he was the escaped convict about whom such a stir had been made at home, both on his escape, and later, when a dying tramp confessed that it was his gunshot that memorable night which killed the keeper.

“Joseph Turnell was wealthy, and had married a dear girl in Victoria, who had borne him a daughter, ere she died. Need I go on, Emily? You have guessed it all! He came to England and took the name of Henry Vane, owing to having some estates left him, as he told his friends; in reality to throw any chance of old acquaintance off the scent. There is no fear now of an; discovery or disagreeable thing happening. I felt nervous the first year or two, but now the only two who know all this are you and I, for even the good old captain is dead. So, you see, I was imprisoned unjustly after all, but it has turned out a good thing for me in the end. Now you have wealth and beauty. I wanted for my own ambition, to see you a lady by title and position, and the earl of Seacroft could have no finer countess, nor you a more desirable husband.”

She sat pale and agitated, yet smiling now, for was not her father free of that awful even if unintentional crime which made her feel so sick as he told her the story?

“So you think I must choose Lord Seacroft?” she asked.

“Nay,” replied Mr. Vane; “I have scarcely done yet. Hear the rest and choose for yourself. As you know now, all I have I owe to that good captain—my freedom, my wealth, my fair fame. I promised—and God knows I have tried—never to forget him and his wife. Emily, that captain's name was Hubert Wells, and this Mr. Hubert Wells is his son! I found out all easily by my agents. I have never repaid the father, never can, nor the mother, either, for what they did. My own, dearest darling can, if she chooses, and I half suspect it will be agreeable—sacrifice with me our ambitious hopes, and repay the son for his father's sake!”

He stopped and looked at her. Emily Vane's eyes wandered thoughtfully out in a long gaze over the sunlit sea; then she turned with a calm smile and whispered:—

“Yes, dearest papa, and she will.”

“God bless you both,” said he. “The captain, though far away, will be as delighted as I am.”

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The Rejuvenation of Rundown.

I.

When first moved into Rundown young Dr. Sarah Brown,
The little town of Rundown was a very run-down town.
The steeple had dropped off the church; the schoolhouse had caved in;
And nothing flourished in the town but ignorance and sin.
The graveyard at the village end in silent peace outspread:
But the live men of that village in that graveyard all were dead.
For there are those communities that by some means contrive
To get its live men in the grave and keep its dead alive.
So when moved into Rundown young Dr. Sarah Brown,
The little town of Rundown was a very run-down town.

II.

When Sarah came to Rundown, the village had no "go;"
But Sarah hitched its trolley to another dynamo.
For Sarah every morning hitched up her spanking steed,
And seized her medicine valise and rushed off at full speed.
She was nineteenth-century lightning—she went so fleet and fast—
Mixed with the cold molasses of a mediæval past.
And so at this tempestuous speed she traveled every day;
A cyclone through a cemetery, she whirled upon her way.

III.

And young Erastus Peterson forthwith began to stir;
For young Erastus Peterson fell dead in love with her.
And young Erastus Peterson put on a bosom shirt,
And from his finger-nails removed the immemorial dirt;
And from his immemorial sleep he awakened with a bound,
And, moved by Dr. Sarah Brown, began to hustle round.
And henceforward from that hour there were two live men in town—
The young Erastus Peterson and Dr. Sarah Brown.

IV.

Now, in the town of Rundown, as you may well suppose,
In this somnolescent village there were somnolescent beaus.
And every girl who had a beau, she told him—every one—
What an elegant young fellow was Erastus Peterson.
And all these girls to all these beaus made such a hullabaloo,
That, as Erastus hustled, all these fellows hustled too.
So all these fellows hustled; and soon the whole slow town
Was hitched unto the dynamo of Dr. Sarah Brown.

V.

And their turgid cold molasses of a mediæval past,
Struck by nineteenth-century lightning, then began to trickle fast.
And to-day no livelier village for its enterprise and snap,
And its fin de siècle vigor, can be found upon the map.
And they wished to name it Brownville; but 'twas plain it couldn't be done,
For she who once was Sarah Brown was Sarah Peterson.
But she said, "Name it Boomville, for that is just the same,"
And they named the village Boomville; they could find no better name.

—Whiffs from Wild Meadows.

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My Cousin's Widow

By Carolyn Stoddard.

PART II.

I had become so accustomed to a roving life that, although the sweet summer tide was at its prime, and the very hedge rows were bowers of wild roses and clematis, I could not settle down at Lornley. I missed the excitement of travel, the stir and variety of the streets, the changing faces and changing scenes that had made up the mosaic of my wayward journeyings. Moreover, the house was haunted to my mind—haunted by a white, despairing face and tender, tearful eyes.

It was odd that I could not get my cousin's widow out of my thoughts. I had not really seen her; I should not certainly recognize her again if we met, and yet I seemed to know her better than I had ever known any woman yet. Her clear, true accent was always ringing in my ears—the bend of her graceful head was constantly reproduced in my surroundings. Several times my military cloak, hanging in the hall, had perversely taken the fashion of her slender, dark figure, and held out imploring arms to me through the twilight gloom.

I daresay the loneliness of my life favored these delusions; but they increased upon me so oddly that I grew almost frightened.

Was it possible that my mind was losing its balance? I had never been troubled in this way before, and had been the first to laugh at nervous folks, recommending tonics to their notice, and showing myself somewhat disdainful of their peculiar malady. Now I was beginning to realize that no physical pain was equal to the misery of these morbid doubts and fears which crowded into the darkness, like so many spectres, peopling the blank night with moving shadows until I, a strong man, grew as timid as a child, and almost dreaded to be alone.

I should have gone away before; but I knew not where to bend my vagrant steps. The season was insufferably hot, and I had no mind to climb the Swiss Alps in a broiling sun for the sake of a stiff breeze on the summit. I had proved Paris to be unendurable. Spain, Italy, Portugal would be worse still. I was lingering on in misery at Lornley, when a friend wrote me that he was going fishing to Norway in his yacht, and begged me to join him, promising me a pleasant change, if little sport. I embraced his offer with alacrity, and no sooner had I left Lornley Court behind than my *agri somnia* disappeared as if by magic.

The winter brought me home again; but now there was plenty of shooting to be had, and I managed to fill the house with my bachelor friends. The old walls echoed back their laughter and songs; and if my heart often ached in the midst of all this merriment for something more satisfying and complete, I expect no one guessed.

Spring, summer, autumn, winter seemed to follow each other so rapidly that, looking back it seemed as if I must have dreamt through the two quiet years that had intervened since my cousin's death made me master of Lornley. And all this while I had never heard one word of his widow. Mr. Frazer had repeatedly made inquiries; but without result, except so far that he was able to prove she had left her father's house, and must be living somewhere alone. Perhaps in poverty! How I tortured myself with this suggestion! Her father was a poor man and could assist her very little, and her fatal pride made me so helpless, too. Suppose I found her, I could only use the old plea; and what right had I to suppose that it would be successful now, when it had failed so utterly before?

About this time I had rather a tiresome illness, and directly I recovered sufficiently, the doctor ordered me to the seaside. I was to select some

place on the south coast, and my choice fell upon Dover; partly because it was a bright, cheerful town and partly because two of my friends were stationed there.

I took a house for three months, and carried the best half of my establishment with me, including the coachman and groom, and my three favorite horses. One of my friends was the colonel of one of the regiments, and through him I obtained so many introductions that I was quite dissipated in spite of myself. I could not refuse all the invitations that poured in upon me, unless I wanted to be thought a second Timon, and I had no fancy for such a reputation, I must own.

Everyone knows the kind of routine life one falls into naturally at the seaside. The whole morning long you sit on the beach tossing stones into the sea, and watching the young ladies drying their long, lank hair in the sunshine. Of an afternoon there is sure to be a band, military or otherwise (the British public prays devoutly that it may not be German) and when the band ceases you go home to dinner with an appetite—or go out to dinner with an appetite, as the case may be. A good night's rest brings you to the starting point again; and you recommence conscientiously; the only variations that I know of being that some days you flirt more than others, and that once during the term you are possibly persuaded to take a sail, and scorn the innovation from henceforth.

One gets very tired of all this after a while, but no doubt it is a wholesome break in a busy life, and good for men whose brains have been overworked; I could not plead this excuse, and yet I knew that I needed to be taken out of myself, and that the long, idle summer days were making me strong. The fresh air carried away my black thoughts and buried them out at sea, so deep down, that I hoped they might never rise out of their graves to trouble me again.

About this time I had an adventure which, as affecting all my future life, was deeply interesting to me. When I felt in a solitary mood, I used to take a book, go to a higher part of the beach which the fashionables did not frequent, get behind a boat and have a quiet morning all to myself.

On each of these occasions I had for near neighbors, a lady and a child. The lady was young; and though she had no nurse with her and was dressed with the utmost simplicity, there was no mistaking her position. The grace with which she wore her print gown, the refinement of her face and figure, the perfect unconsciousness she showed of my presence and scrutiny pleased me, and I used to lie lazily watching the movements of her dexterous white hands as they glanced forwards and backwards in some pretty woman's work.

The child was a fine, sturdy boy of about a year and a half; and seated on the edge of her skirts, he would toy with the stones until he invariably fell asleep. I caught the glitter of a wedding-ring on one of her slender fingers but I should have known without this that the child was hers. For to see her pensive face brighten as she looked upon him, spoke eloquently of a mother's love.

Directly he was asleep she would begin to stitch, stitch, stitch, as if almost life depended on her speed, whilst the lines of her face would settle into pale quietness, very touching, if only for the self-repression the urgent control she seemed to exercise over herself, to keep back the tears that often rose into her sad beautiful eyes.

The picture was so pretty, in spite of its mournful meaning, that I could not get it out of mind, and found myself longing to solve the mystery of her loneliness and evident sorrow. The opportunity presented itself sooner than I had expected. One morning I took my—I ought to say usual seat by this time—somewhat earlier than was my custom, breaking away from a fair beauty who had scattered the gold of her hair in my face, hoping to entangle me thereby. I knew that Maud Dacre was bold and designing, and had made a rash bet with young Edwell of the—, that she would catch

me before many more suns had shone upon her amber head, and I had a certain sense of satisfaction when she muttered to her companions as I strolled away, "What a Goth that man is!" My satisfaction increased, however, when I found my silent neighbor already at her post weaving her delicate web with busier hands than ever.

It struck me that she had a task to complete that morning, for she did not give her usual attention to the child, who presently crawled down to the edge of the sea and began to dabble in the froth that the waves sent surging to his very feet. But I was busy watching her and had no thought for anything beyond.

Her face was flushed and eager, and the sweet lips had evidently hard work to keep to their usual control. But still her skilled hands stabbed the dainty fabric with tremulous speed, the tiny arrow glancing in the sun, and dazzling my eyes with its wonderful accuracy and speed. Could it be possible that this poor creature—a lady, I could swear—was working for bread? It looked amazingly like it. But suddenly she sprang to her feet and uttered a sharp, terrible scream, which put an abrupt end to my reflections.

I was at her side in a moment.

"What is the matter?" I said, breathlessly.

She could not speak, but she pointed towards the sea, and gave me a dumb, stupefied stare. I did not need any telling now. The child, finding the water cool and pleasant, had allowed it to gather about him until it softly lifted him up and floated him out to sea.

He was a brave little fellow, and it is certain that he would not understand his peril, being so young. When the salt water got into his throat, and the waves buffeted him, he began to see that it was no longer play, and would have called out, but could not.

I dashed down to the edge of the water, followed by the poor mother, and plunged in directly. The child was very far out of his depth, but not necessarily out of mine, I thought, and so I breathed a hopeful word or two as I waded on.

The sea was strong this morning, and one mass of tiny sparkles, dazzling to look upon. I could not swim much, but I knew how to keep myself above water, and I began to perceive that I should have to exercise my art, for the water was up to my chin by this time, and the child had gone down for the third time out of reach of my arm.

I struck out steadily, seized hold of his frock as he rose to the surface, and held it between my teeth whilst I made for the land.

As I have said before, the sea was running strong this morning, and, moreover, the tide was fast going out. The great, heavy winds lashed me like a whip, and the water flew buzzing into my eyes and ears, bewildering and stunning me.

Fortunately, the child was insensible; if he had struggled in the least degree, I hardly think I could have held him. But his still, white face urged me to new efforts, only I was so powerless. I began to realize this, and also a more terrible truth still—that unless help came we should both perish together. I lifted my head and shouted to the poor mother:

"Run for help—quick!"

I did not add another word in order to explain the position. To lose a moment might be to lose a life. She did not wait a moment to utter a shriek or wring her hands, after the way of women, but darted along the beach to where the fashionables were lolling, all unconscious of the tragedy that was being played so near, and came back in an incredibly short time, I believe, with two boatmen, and a little train of officers behind these, eager for an event.

But it seemed an age to me before I heard voices, ever so far away, softened by the rush of the sea into dreamy indistinctness. My illness had weakened me a good deal, I expect, unconsciously to myself, for I hardly think I should have become exhausted so soon in the days gone by. As it was, I felt so utterly powerless, so perfectly indifferent as to my own fate, although, from an odd kind of instinct, I still kept my hold of the child.

The first sensations were not agreeable, but they were succeeded by a pleasant calm, that fell on my spirit as gratefully as dew falls on the thirsty flowers. I might be drifting away to death, but I heeded nothing.

For years now I had been trying unsuccessfully to recall my mother's features, and yet now every time the child's face turned over on the water, it seemed to be her face, and I knew it as hers readily. Through the mist that was gathering over my senses, her calm, loving eyes, her still, sweet lips wooed me to her, and the last thing I remember was her welcoming smile, as the spirit went from me in a sudden pang.

"Poor fellow. I believe, after all, he is gone!"

"Gone where?" I asked, opening my eyes on the anxious faces bending over me. "What on earth do you mean?"

And then I lifted my head and took a brief survey of my surroundings. The result was that I felt very queer.

"The weather is unbearable," I remarked. "It is enough to make any fellow feel out of sorts. I think a cold bath would freshen me up more than anything else."

"How strange he shouldn't remember! I wish some one would tell him."

I lifted my head again to get a good look at the last speaker.

"Why, Trelawney, that's you!"

"Do you feel better?" he asked, coming a little closer, and speaking softly and kindly. "We were almost afraid—"

"Have I had a sunstroke?"

I have no conception why this complaint suggested itself particularly, unless it were that I imagined myself suffering in some way from the heat of the weather. My head certainly felt like a lump of lead, and I was as stupid as an owl besides. But a word from Trelawney brought the past scene back to my mind and I immediately asked after the child.

"Never mind about the child," he said. "That is sure to be all right. You've got to think of yourself now, old fellow. Hasn't he, doctor?"

"Exactly so," replied Dr. Blenham, and he began a long medical discussion on the possible results of such a violent shock to the nervous system, until I saved my companions the rest of the infliction by pretending to fall asleep.

But it was strange how really sleepless I was; not only then, but for long afterwards. I could not close my eyes without feeling the angry rush of the waters in my ears, and seeing the poor mother's white, despairing face. The worst of it was, no one could or would tell me how my little charge had fared. Often I fancied he was dead, and they did not like to confess to me that all my efforts had been in vain. In more hopeful moods, I pictured him smiling at me from out the shelter of his mother's arms and kept wondering to myself what she would say when we first met.

Like the generality of Englishmen I am not fond of being thanked. It makes me shy and awkward; and yet, I was perpetually rehearsing the young mother's grateful broken sentences. She had such soft eyes, such sweet lips, such pretty gestures! Each minute I should be recognizing a new charm, either of face or manner. She was evidently calm by nature; but it was the calm of self control and not of passivity; so that, deeply moved, she would be enchantingly eager, passionately tremulous. I fell asleep one evening with this thought uppermost, and it came back in my dream. She stood before me, with radiant eyes, and stooping down blessed me with the kiss of her grateful lips on my hand. It was only the wind from the open window, touching me as it passed, no doubt; but the sensation was so vivid and real that it woke me suddenly. And there she stood, looking at me with tender thankfulness and such deep, earnest watchfulness that I would have given worlds to have erased every sign of suffering from my face, so that there might have been nothing for her to see but joy and welcome.

"You have been ill, I know," she said, in her low, soft, clear voice, which sounded strangely

familiar to me at the moment. "I have been often to the door to ask after you, but they would not let me in, and I have been in such agony lest you should have thought me ungrateful. But now I am here, what can I say? I owe you so much more than my own life, and yet I cannot, find a single word of thanks."

"Tell me how the boy is," I said; "I would far rather hear that."

"He is wonderfully well," and her changing face brightened; "you would not guess he had been so near death. But it is odd that, remembering nothing of his terrible adventure, he has now such a wonderful horror of the sea. He shrieks and hides his eyes in my bosom at the merest glimpse of it, and will not be pacified until you carry him away."

"I expect he has some kind of vague impression that it has ill used him."

"I think not; it is instinct, probably."

"Poor little man! I am hardly surprised at his prejudice. I am not in a hurry to get near it again either."

Quite suddenly she went down on her knees before me and burst into a passion of tears.

"You are so good," she murmured, brokenly—"so good, and I have no words. If I could but speak ever so little of all I feel!"

"You would only distress me, indeed," I replied with unfeigned earnestness; "besides, I can realize what a mother's feelings would be under the circumstances, without any telling. And if you knew how glad I was to be able to help! After all it was very little I did, and I venture to hope there is not a man in England who would not have acted as I acted, under the same circumstances. However, if you want to reward me for my very small service, you shall tell me something of your history. You understand I don't ask to know anything that it would pain you too much to repeat; but I want to feel that you look upon me as a friend, and trust me."

"I do trust you," she said; "but mine is a short, miserable story, and could hardly interest anyone. I married early, and my husband died soon after, leaving me very poor. A few months later my boy was born, and for him I work and toil joyfully. My life is no longer desolate, and I am content; you see," she added, quickly, "there was very little to tell."

"And your name?"

She hesitated a moment before she answered me, and I noticed with surprise that she flushed with something very like shame.

"I call myself Mrs. Grey. Please don't ask me any more questions."

"You are a lady, I can see."

Unconsciously she lifted her head and met my glance proudly.

I went on:

"I knew that directly I saw you. I don't think it is possible to mistake those things. And now I am going to be very bold, Mrs. Grey, that I shall have to remind you that you are in my debt for a small service before I dare speak."

"Go on," she said, shrinking a little.

"I am going to ask you to treat me really as a friend, for the boy's sake."

"I know what you mean, but I can't—not that at least."

"Why not?"

"I was never made for dependence; I am too proud. One week I had to beg my landlady to wait for her rent, and I have never liked to meet her face to face since. I sat up three nights; I paid her almost directly, and yet I remember the torture of that interval as a warning. Besides, I am getting on better just now. A lady saw one of my sketches at the library the other day, and gave me an order for half a dozen more. One gets so tired of stitching from morning till night that it is a real relief to find an occupation that is both pleasant and profitable. The drawing had been there so long I had given up all hope of its attracting attention, so that it came upon me as an agreeable surprise. You see, I do treat you as a friend, since I tell you my private affairs, more even than I have told my own mother, who thinks

me quite a prosperous person on the whole. She cannot help me, and therefore it is necessary she should suppose that I am helping myself, effectually and pleasantly."

"Is your mother also a widow?" I asked.

"She is, unhappily. My father, who was the rector of a small country parish, died suddenly about a year and a half ago. We are a large family, and my mother has still three boys to educate and set up in life, so that her income of £300 a year barely suffices, though she is living in a quiet town where there is a free school, and with care and economy just manages to make both ends meet."

"She must be an excellent manager."

"Dear mother! she is indeed. I lived at home until my father's death; he would have it so, but I could not stay there now, feeling that I was injuring the boys and increasing her many anxieties. I often wish I could find work near her, for it is very lonely sometimes, and we should help and strengthen each other; but no doubt it is best as it is."

(To be continued in June issue.)

Heart Rest.

BY WINI A. CHEANY.

The gentle doves were cooing in their nest,
And billing o'er their love amid the bowers;
A perfumed breeze blew softly from the West,
And whispered flattering tales among the flowers;
The bees droned gently to the Columbine;
A bird sang dreamily to its mate above;
Bright butterflies swayed slowly on the vine;
And lazy nature sighed of rest and love.

All save my heart;—my weary, wakeful heart,
That sighed for rest and love and found them not;
That found mid all these scenes of bliss no part,
And sad, neglected, grieved its lonely lot;
That watched the bird, the bees, the butterflies,
And listened to the breeze with love-sighs fraught,
And sent the tears of pain to jealous eyes
That I alone, was sad, unloved, unsought.

Then, angry, rose I from my couch of grief,
And strove to drive the scene from aching eyes.
In lonely ways I wandered for relief,
Mid scenes of toil and under dreary skies,
And there I found a heart that matched mine own;
A heart that wept apart in lonesome pain.
I stopped and lingered near to soothe its moan,
And mingle sympathizing tears like rain.

And lo! I walk in grief apart,
And sigh no more o'er scenes of love and rest;
Hushed is my moan; forever healed my smart
By driving sorrows from another's breast.
What though the flowers and butterflies are dead,
And stilled the breeze, the bird, the bees, the dove;
Though cruel North-winds whistle round my head?
My hours are full of peace and rest and love.

Do not peddle your principles for a living.
Tears are the tribute of humanity to its destiny.
There is many a leap 'twixt the boat and the ship.

Pay as you go and save enough to come back on.

Do not permit the good luck of others to discourage you.

A wise man always keeps on hand enough resignation for any emergency.

A rational nature admits of nothing that is not serviceable to the rest of mankind.

For his bounty there was no winter to it; an autumn it was that grew more by reaping.

Money crawls towards us, but flies away.

The single effort by which we stop short in the down hill path to perdition is itself a greater exertion of virtue than a hundred acts of justice.



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Kentias are said by florists to be the best-selling palms.

Don't shut out the sunshine. Sunshine means health.

Two duties of good American citizens; spare the birds and plant trees.

There is no index to character so sure as the voice.—*Disraeli*.

The little ills of life are the hardest to bear, as we all very well know.—*Thackeray*.

The whole country would be beautiful if every home were adorned with trees and flowers.

We hope you are pleased with the enlarged and improved magazine—show it to your friends.

Plant some single Dahlias. The contrast of the golden centers with the rich, dark petals is beautiful.

As we advance in life, we learn the limit of our abilities.—*Frucht*.

We are glad to note that some railroad corporations are considering the planting of trees along their lines.

Plant early and late sweet corn, and early and late varieties of peas, in order to have a supply all summer.

Trees on the south side of a road, keep out the sun, and let in the winds, and the ground is a long time drying out.

We believe that boys and girls who pursue "nature study" with delight will learn to love the country and country life.

Plenty of shrubs and flowers around the house, add not only to the attractiveness of a place, but to its selling value as well.

Trees on the north side of a road protect from cold winds, and mud and ice disappear more rapidly under such conditions.

If your house is a stone one, plant Ampelopsis Veitchii, or Japan ivy to run up on the walls. It has a wonderfully softening effect.

There is such a thing as being too neat. Don't put out of sight all books, magazines, and papers, the instant you have looked them over.

We are making some wonderful premium offers. Should you not be personally interested in them please show them to some one who is likely to be.

Owing to the increased cost of the larger magazine we must soon advance the price. Until July 15th you can get it two years for only fifty cents.

Current Topics

A financial panic prevails in Japan.

Greenwich time has been officially adopted by Spain.

Vice-President Roosevelt has become a Master Mason.

The entire French Mediterranean squadron is being fitted out with wireless telegraphy apparatus.

The revolt of the University students of Russia has resulted in the closing of a large number of schools.

Queen Wilhelmina positively refuses to pay her husband's debts, contracted prior to their marriage.

Mrs. Carrie Nation now in jail at Wichita, it is said, refuses to accept bail and is highly incensed over her treatment by the authorities.

It is stated that J. Pierpont Morgan is forming a combination which will include a number of great department stores of New York and may extend to other large cities.

Michael G. Mulhall, the great statistician, who recently died in London, forecasted the twelfth American census within 95,000, thus showing how accurate that science can be in skillful hands.

E. J. Hoffman of Omaha claims to have invented a process whereby the clods of the field will burn like anthracite coal. Seventy-five per cent. of the new fuel will be common earth and will cost \$2.50 per ton.

The official name of the exposition to be held in Portland in 1905 is "The Lewis and Clark Centennial and American Pacific Exposition." The whole is surmounted with the legend, "Where Rolls the Oregon."

Arkansas has just passed a severe anti-gambling law, making the running of any gambling table or device a misdemeanor punishable by a fine of from \$500 to \$1,000, one-half to go to the informer and one-half to the school fund.

The train upon which President McKinley and party are taking their western trip, is one of the finest trains ever run over any railway. It is made up of seven cars. This, also, is the most extended trip ever taken by a President of the United States.

Minister Conger, on his return from China, alleges that the sensational dispatches about Rev. Dr. Ament and other missionaries looting the natives, upon which Mark Twain based his charges and made his defence, are practically without foundation.

Justice Gray of the Court of Appeals of the United States handed down a decision April 14th, which is, in effect, that a divorce granted to a husband or wife, who have not both acquired a matrimonial residence in the state where the decree was obtained, is illegal in any other state.

Marcus A. Miller, inventor, educator, and writer of some local repute, of Binghamton, N. Y., requested before he died on April 22, that Ingersoll's works should be burned by his open grave. He had been a follower of the great agnostic, but wished to acknowledge his mistake and thus proclaim to the wide world his new-found Christian faith, and issue his protest.

The April storms and floods were the most severe within the memory of the oldest inhabitants in some localities. In some places the snow was three feet deep. In Buffalo the damage was so great that the formal opening of the Pan-American fixed for May 1, will be consolidated with the program of dedication day, May 20, though the gates were opened May 1. The losses by flood at Pittsburg are estimated at about \$3,000,000. Nearly every town on the Ohio River between Wheeling and Pittsburg was in darkness on Sunday night of the great storm.

James Callahan, charged with the kidnapping of Edward Cudahy, Jr., was acquitted by a jury April 27, at Omaha. Judge Baker scored the jury in cutting terms saying: "It is impossible for me to understand how twelve intelligent men

could have agreed upon such a verdict," and refused to allow the defendant to thank them because they did not deserve thanks. Callahan was re-arrested under two other counts.

Professor Herron, the apostle of socialism, who deserted his wife and four little children for Miss Rand, a young heiress, met with a cold reception in Brooklyn, when the Get Together Club called off a dinner, after learning of his personal history, which was to have been given in his honor. Dr. Hillis, the worthy successor of Beecher, said: "I could not go while the sobs of his deserted babes were thundering in my ears."

Since Aguinaldo took the oath of allegiance and issued his proclamation urging his followers to surrender and do likewise, there has been a decided change for the better in the Philippines. Up to May 1, when the Amnesty term expired many companies had surrendered, though Gen. Cailles has proclaimed himself dictator and successor to Aguinaldo. His command was broken up April 26th, five of his staff officers taken, and all his papers and personal effects.

James Douglas Reid, "The Father of the Telegraph," so-called, died April 28 in New York. He was an intimate friend of S. F. B. Morse, and the statue of Professor Morse in Central Park, was erected by the telegraph fraternity largely through Mr. Reid's efforts. He entered the telegraphic service in 1845 and continued until 1889 when he was appointed United States consul to Dunfermlin, Scotland, through the influence of Andrew Carnegie, who was a messenger boy and operator under him at Pittsburg at one time.

A jury of United States Army surgeons has been investigating in and around Havana, as to the relation the mosquito sustains to the transmission of malarial and yellow fever. The report is against the active, little insect, and the claim is set forth that he is the chief agent in the transmission of these diseases. Surgeon-General Sternberg endorses the report "without reservation." A similar inquiry was conducted by medical experts in South Africa as to the cause of malaria, and also, by Italian investigators in the Roman Campagna. Elaborate directions have been sent out to prevent the breeding of mosquitoes and to protect officers and men against their bites.

Book Notices.

The New Rhubarb Culture. Within a comparatively few years the industry of forcing garden vegetables for the market has assumed great proportions. The forcing process has been carried on by glass and greenhouse culture, both expensive methods. Experiments have shown that many vegetables can be grown in dark cellars and attain their highest perfection at far less expense than under glass. This is particularly the case with rhubarb.

The little book with above title is in two parts. Part I, by J. E. Morse, author of "Garden Specials," etc., gives practical instruction how rhubarb can be grown in the cellar, (for market or for one's own use), also in the hotbed and the greenhouse. Part II, by G. Burbank Fiske, gives instructions for field culture. A chapter on "How to use Rhubarb," giving a large number of recipes, will be appreciated by the housewife. Published by Orange Judd Co., New York. Postpaid 50c.

Plums and Plum Culture, by F. A. Waugh. Mr. Waugh is an acknowledged authority on the subject of plums and plum culture, and the book with above title is a valuable contribution to the knowledge of this particular fruit. It is a monograph of the plums cultivated and indigenous in North America, with a complete account of their propagation, cultivation, and utilization.

Fruit growing is becoming more and more specialized, and those who grow plums do not care for a treatise on other fruit or fruits, so that a book on plums alone meets the demands of the times.

The book comprises over 360 pages and is profusely illustrated. One chapter devoted to "Cooking Plums" contains valuable recipes by competent authorities. Published by Orange Judd Co., New York. Price \$1.50.

(Concluded on page 22.)

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SEE SPECIAL ANNOUNCEMENT ON PAGE ELEVEN.

You may take subscriptions at the special rates named on page eleven, until the special offers expire on July 15. This will make the work easy. Those who desire to accept any of our premium offers may do so and all such subscriptions will count as single subscriptions.

If you are not personally interested in these offers will you not kindly hand this copy of the magazine to someone who needs the premiums we offer? You will do them and us a favor.

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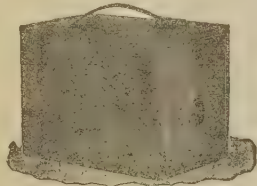


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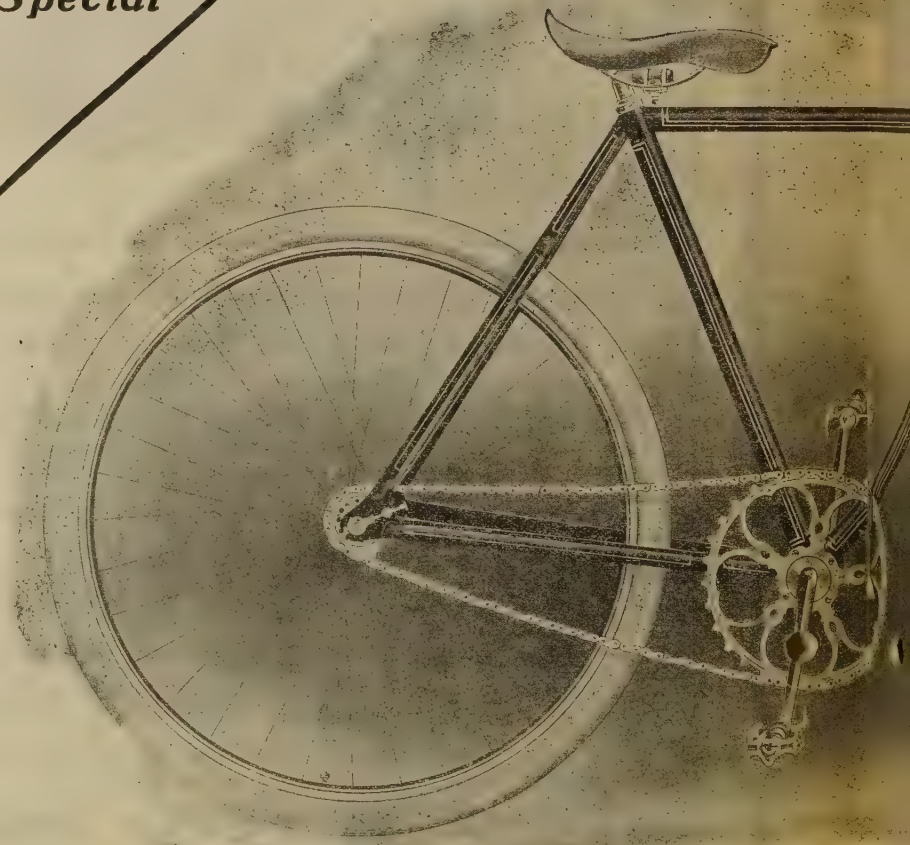
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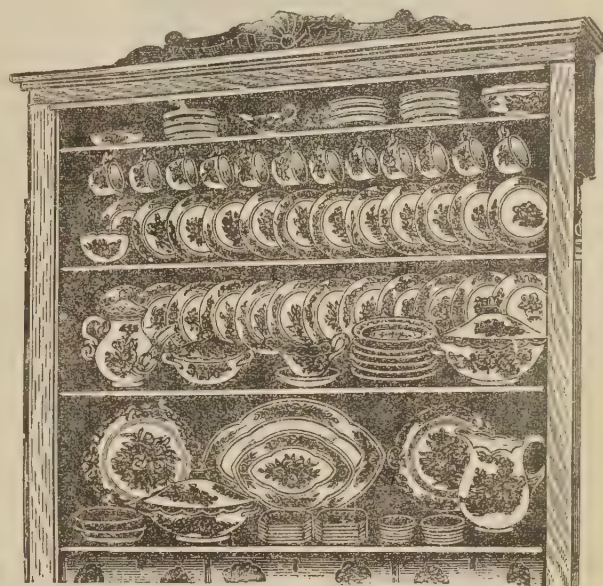
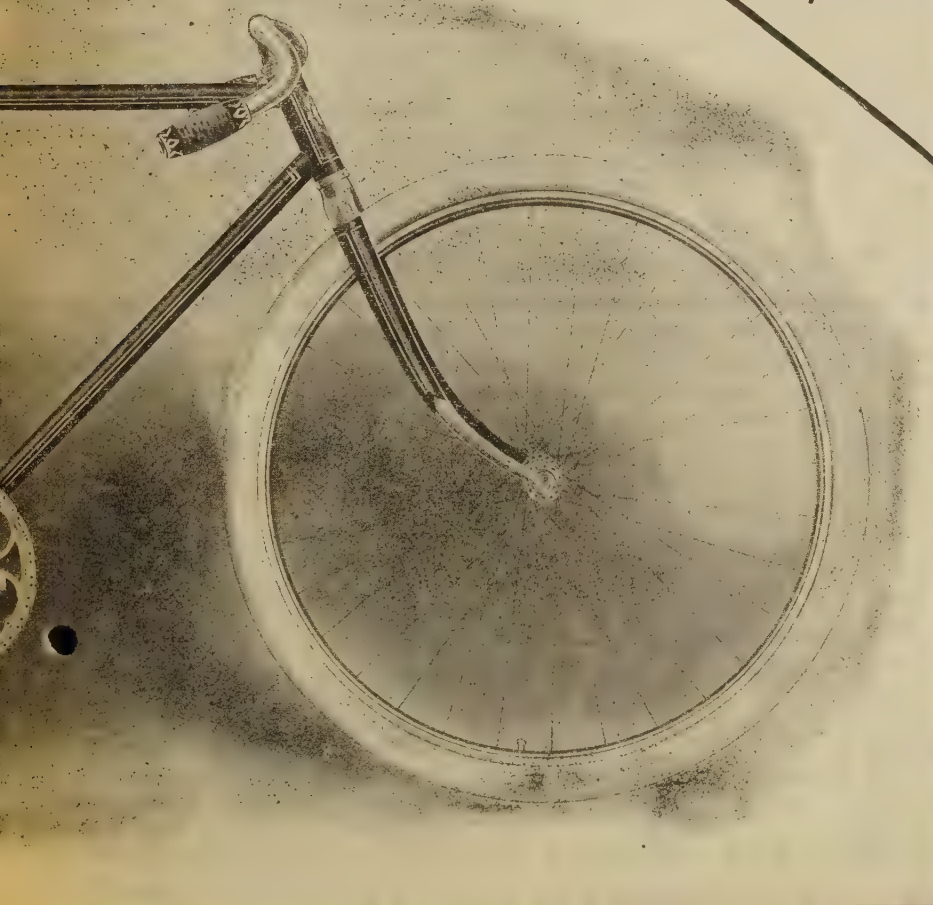
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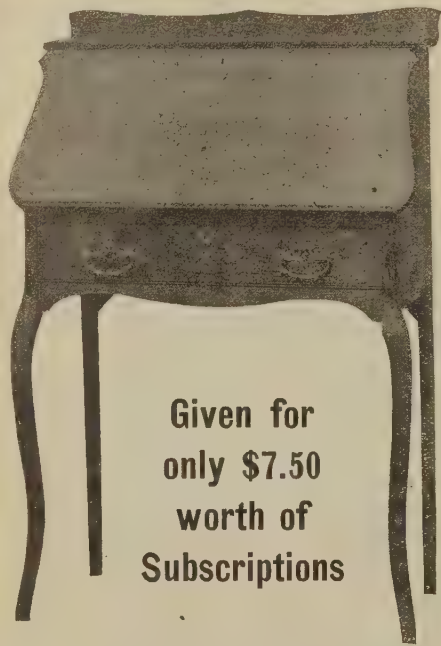
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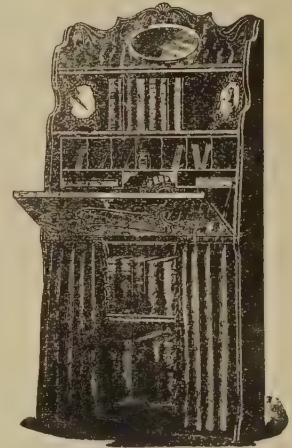


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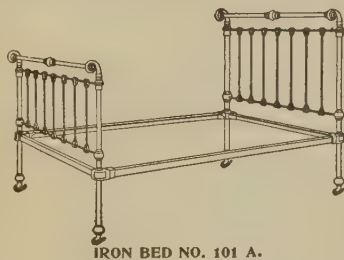
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IRON BED NO. 101 A.

IRON BEDSTEADS. The Bedstead shown in this illustration, No. 101 A, has the popular **roll top rails** and is a neat substantial pattern. 50 inches high—full size, six feet six inches long. Top rolls of polished brass. Given for \$10.50 worth of subscriptions or for \$6 in subscriptions and \$3.50 in cash. **Bed No. 101** is like 101 A except the top rails, which are omitted, but as each post has an ornamental brass top it is a handsome bed. Given for \$7 worth of subscriptions or for \$4 in subscriptions and \$2.75 in cash. We can furnish woven wire springs for either of above beds for \$7.50 worth of subscriptions additional or for \$4 in subscriptions and \$2.75 in cash.

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Transplanting Wild Flowers.

Flowers seem to possess a certain charm, a fascination, for all children, boys and girls alike. I have never known a child who did not love flowers dearly. The first spring flowers, the snowdrops, the crocus, the beautiful scillas, or squills as they are sometimes called, the bright yellow daffodils, the variously colored hyacinths and other spring flowering bulbous plants naturally attract the child's attention, perhaps to a greater extent than those plants which bloom later in the season. The winter has been so long, no flowers were to be seen in field or garden, and now they are coming out again one after another, increasing in quantity as the season advances.

The child's desire to own a little flower bed wherein to grow all these beauties awakens with the spring, but it is too late then to make preparations for a bed of early blooming bulbs. We must plant them in autumn, we can't disturb them now, and many a child may feel sadly disappointed on hearing that a whole season must pass before arrangements for a bed of spring flowering bulbs can be attempted. But with a will, a little labor and perseverance, any child may collect enough pretty spring flowering plants to fill a fair-sized bed at no expense at all.

We have quite a number of charming and really beautiful wild flowers growing around us, which will submit to being lifted and transplanted even while in full bloom, if these operations are performed in a careful manner. A strong, sharp trowel and an ordinary paper box are all the tools you need for gathering them. With the trowel first cut around the little plants, pressing this instrument deep down into the ground, then with the last cut a pressing down of the handle will lift the plant out of the ground with a lot of earth adhering to the roots, ball of earth and all is then carefully placed in the box and you hunt for more until your box is filled. When planting them in your garden or bed, be careful not to shake the soil from the roots and be sure to press the soil firmly around them, water liberally and shade them from the sun for two or three days by placing newspapers, weighed down at the corners with a few small stones over the bed. In the spring months new roots are formed very rapidly in the moist ground, the plants re-establish themselves readily and with but little care every expanded flower as well as all the buds can be saved on the plants; but if we dig them up carelessly, breaking or bruising the tender roots or when we shake most of the dirt out from between the roots, we cannot expect great success, though usually the plants will recover and live, but we will have lost its flowers and buds for a whole season.

Very few spring flowering plants of any description will form new buds after their first crop has been destroyed. One of our earliest and daintiest spring flowers is the native Hepatica triloba (Liverwort). The commonest is the soft pink variety, though darker and brighter colored specimens are quite frequently found, also various shades of blue and white. They are now in bloom, along the

river banks, and more abundantly perhaps in the open woods. It is a dwarfed little plant with three-lobed leaves. Last year's foliage will be found on most of the plants yet green. The young leaves are covered with a silky pubescence, bronzy in color, turning green as they grow older, not fully developed at this time, only just coming up, but the flowers and buds are there. The latter are about one-half inch across, six to nine-sepaled and quite numerous on the older clumps, but I presume you will not find many old plants, however. The younger stock is just as good if not better for your purpose. They will increase in size and bloom more freely from year to year. The Hepatica is justly considered as one of the choicest and most charming spring flowering plants, here as well as in European countries, and numerous improved garden varieties have been introduced, including double varieties in several colors. Some of the nurseries keep Hepaticas in stock, so they may be procured there.

Phlox subulata, the so-called moss pink, will very soon be in bloom on the sunny slopes along the river banks. Under cultivation it has been greatly improved, but the wild forms are not to be despised. The most common is the pink or rose colored variety with a darker center or eye, though the pure white form is occasionally found in this section. The plant forms an evergreen mat or carpet over the ground, with numerous tips and procumbent branches all interwoven; from the ends of each tip and branch, the starry five-leaved flowers are produced in such profusion that the whole plant seems a sheet of color for several weeks while it is in full bloom. The leaves are very narrow, awl-shaped, slightly curved, about one-half inch long, set closely along the trailing stems. When gathering them, the smaller sized clumps should be selected, these transplant more readily than the large sheets. The improved varieties may be bought at small expense at the nurseries.

Another phlox and a most valuable one for every garden is the species called divaricata or canadense. Only the few people interested in botany know and have seen it flower, though it is easily found growing along the edges of woods, and in other places in rich and rather moist ground. Its flowering time comes a little later, in May, its leaves are oval, lance shaped, rather small when first coming out, increasing in size as the stems grow taller. The habit of the plant is creeping, but the flower stems rise to a height of ten to twelve inches, producing a forked, loose corymb of delicate lilac blue, rather large flowers, a most unique color for a phlox and a very choice, beautiful and highly ornamental subject when grown in the garden.

Anemone thalictroides, a rather hard name to pronounce correctly, perhaps you would rather call it Rue anemone, is a little beauty, resembling somewhat the wood anemone only it is smaller in all its parts; the flowers appear in little umbels at the end of a leafless stem in early spring, white usually, rarely we find the pinkish variety among them. The leaflets are roundish, three lobed at their send

Continued on page 23.

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EXTRA PRIZES.—If you cannot find all the names we will give a \$20.00 value present to everyone who sends the names of but four women in the list correct, so you are sure of a prize. We have no work for you to do or any condition to secure our presents. This is only an advertising idea and we propose spending a small fortune in presents to those who possess brains to solve our interesting contest. It is only necessary to enclose 25 cents with answer for subscription as we want prize winners to be on our books as subscribers. The entire amount of cash received from our subscribers will be appropriated towards defraying a stage and advertising expenses, so contestants will see our object is not a money making scheme. Write to-day as answers to this adv. will not be considered after 60 days. You are sure of a prize and may be successful in securing a piano that will be the talk of your neighbors. We are reliable women publishers of the long established "Women's Ideas" as the editor of this paper will write and give your letter immediate attention. Address **Women's Ideas Pub. Co., Philadelphia, Pa.**

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HOUSEHOLD & HELPS

By Nannie Moore.

I Know Not Why.

I lift mine eyes against the sky,
The clouds are weeping so am I;
I lift mine eyes again on high,
The sun is smiling, so am I.
Why do I smile? Why do I weep?
I do not know; it lies too deep.

I hear the winds of autumn sigh,
They break my heart, they make me cry;
I hear the birds of lovely spring,
My hopes revive, I help them sing.
Why do I sing? Why do I cry?
It lies so deep, I know not why.

—Morris Rosenfeld

May is the month of the moth.

The moth lays the egg, which hatches the worm, which eats the clothes.

If you hang your winter woollens out of doors to air, see that they harbor no moths before packing away.

Moths dislike all pungent odors, so a pleasant one, if strong, will suffice to drive them away. Half a dozen Tonquin beans, an ounce each of cinnamon, cloves, and mace tied in a coarse muslin bag is said to work like magic in guarding clothes from them.

May is the season of "cellarities," "that tired feeling," call it what you will, we all know it. To guard against it, see that all odds and ends are removed from the cellar, and that the darkest corner is as clean as the lightest. Vegetable cellars often harbor most unwholesome microbes, if a few cabbage leaves, potato sprouts, etc., are left there to decay.

This is a grand month to clean out winter accumulations. Burn old papers, send old magazines to the hospitals, give old clothes away, and purify old rags with fire. A ragged dishcloth is said to be a fertile breeding-ground for all sorts of unpleasant germs that we are better off without.

That old fashioned scourge, the annual housecleaning is rapidly losing its grip on the American housewife. Bare floors, painted, stained, or hardwood with rugs, large or small as may be, are now so well-nigh universal that most rooms can be easily cleaned in a day, rugs beaten and replaced. Rugs are not only more sanitary but more economical, for you may shift them about and distribute the wear so that no one spot can become threadbare.

Old carpets can be made over into very pretty rugs either with all-around borders, or without. Or they may be heavily overcast with stout linen thread and fringe sewed across the ends. This fringe may be bought at small cost, in all colors at carpet or department stores. Old ingrain carpets, than which there is nothing shabbier or more forlorn, can be woven into handsome thick rugs. One was seen a few days since in a dining-room, which was very rich in effect. Its size was eleven by fifteen feet, it took sixty pounds of old ingrain of all colors, and all degrees of raggedness, and cost thirteen dollars to weave. The weaving comes much cheaper in country districts.

The little poem which heads this page is translated from the Yiddish of Morris Rosenfeld. He is a Jew, a worker in tailoring sweat-shops in New York City.

How to Fight Spots.

ON MARBLE.—Mix soap that has been made soft with water, with some whiting, so that it forms quite a stiff paste. Spread thickly on the spot and allow it to remain several days, then brush off. If not made by acid, the spot will be gone.

ON CARPETS.—Either ammonia or ox gall is good for ordinary grease spots. One tablespoonful of ammonia to two quarts of water, or one tablespoonful of ox gall is the proper proportion. Take a coarse sponge or flannel not too wet, wash out spot and then rub till nearly dry. Lime spots can be taken out with vinegar, then rinsed and rubbed quickly. For soot, cover as soon as possible with table salt or cornmeal and sweep up. For ink, plenty of milk sopped on the spot, and soaked up with blotting paper, is the best remedy. Then wash out the milk with castile soap and warm water, and when dry cover the spots with fuller's earth. This will generally remove all the grease left from the milk. If some grease still remains, a warm iron and tissue paper is your last resort.

ON CLOTH.—Oil spots from the machine may be removed from white goods, by rubbing the spot with a little ammonia and then washing with soap and water. To renew velvet that has been spotted with water, dampen on the wrong side by sponging, then pass the wrong side quickly over a hot iron, and the pile will rise.

Six Antique Saws About Us.

On buying horses and taking a wife, shut your eyes tight and commend yourself to God.—*Tuscan Proverb.*

A woman never commands a man, unless he be a fool, but by her obedience.—*Turkish Spy.*

If you would make a pair of good shoes, take for the sole the tongue of a woman; it never wears out.—*Alsatian Proverb.*

The one who has read the book called woman, knows more than the one who has grown pale in libraries.—*Houssaye.*

I will not affirm that women have no character; rather they have a new one every day.—*Heine.*

A woman is like your shadow; follow her, she flies; fly from her, she follows.—*Old Proverb.*

Simple Remedies. Try them.

If you have been working hard all day, either in the home or out of it, if both body and brain feel the strain to which they have been subjected, try the simple plan of wringing out a towel in water as hot as can be borne and laying it on the back of the neck. Bathe your forehead too with the hot water, and you will find your nerves are soothed and that you feel wonderfully rested. A severe nervous headache treated in the same way can often be quickly cured, while exposure to great heat causing a rush of blood to the head, can be relieved by applying a hot towel to face and head.

Cases of colic in children will generally yield to the magic of a piece of flannel wrung out in hot water, and applied to the pit of the stomach. It will often serve to allay toothache and neuralgia. In fact few people understand what a valuable remedial

agent they have at hand in the tea-kettle, and what a perfect boon to an invalid or aged person a hotwater bag with a flannel cover may be. Even an acute attack of croup may be brought under control, by constantly removing flannels wrung out in hot water around the child's neck. They should not be warm but hot.

Sore throat, and rheumatism if not deep seated will also give way before this simple remedy if applied quickly and thoroughly.

Hot water taken internally seems to be almost as valuable in its uses. It makes an admirable cathartic if taken freely just before bed time, and in cases of dyspepsia often relieves the patient if taken just before meal times. Say about a cupful.

If you are foot sore from standing or from a walk of unusual length, a lemon cut in half and rubbed on the feet will soothe them and take away any smarting sensation.

Don't feel that you "cannot take time" to employ any of these remedies, for it will pay in the long run. Just so it pays every brainworker to rest half an hour absolutely, in the middle of the

day, and give the over-worked brain, a chance to recover, and the stomach liberty to perform its functions.

"Brainfag" is a new disease, but it may be successfully grappled with if one will only observe the simple laws of health and not expect the brain to be active, while all the blood is trying to assist the stomach to digest a meal. It is far better if you cannot give yourself this rest to content yourself with a slight meal at noon. But we will admit that "a nibble at some graham crackers" seems a trifle too dainty, even though recommended by a doctor, who gave himself as an example of that diet.

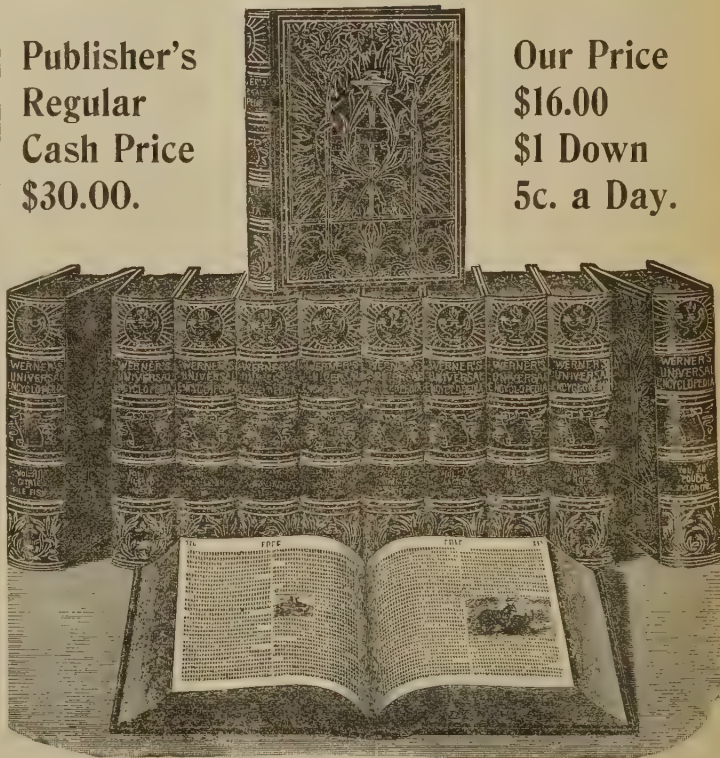
A gallon of pure olive oil is as valuable a store to have in the house as a barrel of flour. It is the most economical way of buying it, and is pure product of the olive, not an ingenious mixture of, one cannot tell what. It is a most nutritious and easily digested food, and even children grow very quickly to love it, and take it gladly as a spring tonic. A second grade comes for frying and many people prefer it to butter.

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SPRAYING VS. TRAPS.

An Old and Experienced Orchardist Gives the Results of one Season's Test of the Moth Catcher.

SPRINGFIELD, MO., April 3, 1901.

DEAR EDITOR:—I beg space in your valuable paper to answer the many inquiries I am receiving daily in regard to what is known as the "Haseltine Moth Catcher" and its superior merits to spraying. I have been spraying my orchard for six or eight years for the purpose of destroying the enemy of the tree and fruit, and the method has not proved satisfactory to me. Last season my attention was called to the "Haseltine Moth Catcher." What first attracted my attention to it was noticing in the mornings the many different kinds of bugs and insects which seemed to have been attracted to and killed by the electric lights in our city. I then purchased one of the traps, placed it in my orchard, gave it a trial and it proved a success. So I bought fifteen other traps and placed them in my orchard of forty-six acres, which proved very successful and I am satisfied that I caught of the Codling Moth and Stinging Fly and other enemies of the orchard and fruit, to the amount of two bushels in the sixteen traps.

It has been claimed by some horticulturists that the Codling Moth can not be enticed by light and caught in traps, which is entirely a mistake. My fruit last year from the use of the traps was the cleanest crop I have had since my orchard commenced to bear, except the bitter rot, which I am satisfied is atmospheric or climatic and not caused by any insect. I also had my orchard wormed in the fall by an expert and I only got a few borers from the trees either young or old. I had my orchard wormed this spring and found scarcely any borers in the orchard. I was so well pleased with my trial of the traps that I sold the barrel of blue stone I had left on my place to one of my neighbors, Henry Scholten of this city, and will not spray at all this season. Being convinced by my experience with spraying that the only benefit to be derived from that method is that the insect may happen to get enough of the poison to kill it and I am satisfied that it is a failure in that respect and also that it is injurious to the foliage of the tree. And when you have injured the foliage by the use of a poison you have weakened the vitality of the tree, therefore injuring the fruit. In the use of the traps you have none of this to contend with. The trap catches the parent, thereby destroying the crop of insects that prey upon both tree and fruit, which cause both, worm and what I term black or dry rot, in the apple, sometimes making them lumpy.

I would advise in the use of the traps, say three traps to the acre, changing them from place to place over the orchard, filling the lamps full enough of oil to burn from about dusk until midnight. By doing this the lamps will go out of themselves without any more labor than filling them and lighting them in the evening. I would commence setting the traps when the tree is in good large red bud

before the blossom opens out, keep them sitting for about two weeks, then wait about one week and set them again as before, two weeks then wait about ten days and set them again, about two weeks, the last sitting being governed by the catch in your trap during the night. With economy and good attention to the traps, the oil and labor for the three sittings will not cost more than 60 or 75 cents per trap, which is one-third or one-fourth the cost of spraying an orchard properly, and the result, from my experience, will be ten-fold in favor of the use of the traps.

Inquiry has been made of me if they would be of any use in a plum orchard and garden. In the plum orchard I would set at least four traps to the acre, the trees being lower and foliage thicker, it would require more lights, to attract the attention of the insect. Never having tried them in a garden, I could not say, but I am satisfied they would be good for cabbage or potatoes.—A. Harrington in the Central Farmer.

Orchard Pests and the Remedy.

BY S. A. HASELTINE.

The fruit grower has many enemies to contend with. To make fruit growing profitable the expense of the battle with the insects must not exceed the profit on the fruit.

My father, the late Hon. Ira S. Haseltine, planted the first commercial orchard in Greene county, Mo., thirty-two years ago, consisting of ninety acres. It proved a great success, the native birds were plentiful and destroyed the pests.

The orchard has been increased until now we have over two thousand acres. As the birds were killed and the orchards increased the pests multiplied. To make these orchards profitable it became necessary to devise some means to check the ravages of its enemies.

We sprayed these orchards from three to five times a year, but with all the expense, danger and disagreeableness of the work we failed to get the desired results.

In this attempted battle with the insects we had many head of stock poisoned, several of them thorough-breds.

The eighty acres of this orchard which has been sprayed the most shows the greatest signs of decay, a large per cent being dead; while other orchards of the same age and variety, but not sprayed so much, are in perfect health.

We discovered by experimenting with spraying what F. C. Parker, who has written several United States government bulletins, said is true: "Something better than spraying must be found to fight the codling moth or orcharding must be abandoned."

We tried open lights, torches and lanterns in the orchard. The codling moth would approach the light, but on feeling the heat of the flame would dodge the blaze and circle away, a very small per cent committing suicide in the flame.

Therefore something more was necessary to catch this little dodger. Hence the radiating reflectors from the central light placed over a vessel

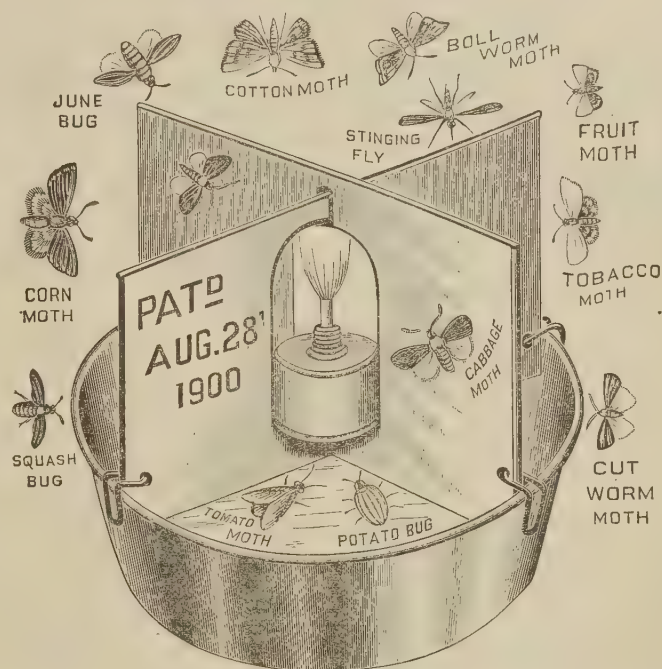
(Continued on page 25.)

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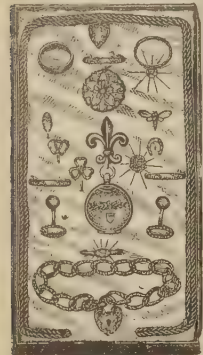
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Gems of Thought.

Do people live the lives they like best?

Anywhere, I wonder?

Does anybody truly rest

'Till grass roots bind him under?

Politeness is the oil that lubricates society.

Truth never was indebted to a lie. —Young.

Time and eternity are one; Time is eternity begun.

The social life of the church shapes the spiritual.

'Tis vain to quarrel with our destiny. —Middleton.

The longest sorrow finds at last relief. —W. Rowley.

Variety's the very spice of life, That gives it all its flavor.

—Couper.

Like our dawn, merely a sob of light. —Victor Hugo.

'Tis the good reader that makes the good book. —Emerson.

Hope for the best; get ready for the worst. —Matthew Henry.

To climb steep hills requires slow pace at first. —Shakespeare.

That which is not worth the trouble of being spoken is sung. —Balzac.

By all means use some time to be alone.

Salute thyself. See what thy soul doth wear.

Dare to look in thy chest, for 'tis thine own.

And tumble up and down what thou findest there.

—Herbert.

'Tis easy to drift downward. The rub comes when we try to retrace our steps.

The sovereign is called a tyrant who knows no laws but his caprice. —Voltaire.

It is not all of life to live

Or all of death to die.

When a man assumes a public trust he should consider himself as public property. —Thomas Jefferson.

As "unkindness has no remedy at law," let its avoidance be with you a point of honor. —Hosea Ballou.

This sad old earth must borrow its mirth;

It has troubles enough of its own.

—Eliza Wheeler Wilcox.

When men grow virtuous in their old age they are merely making a sacrifice to God of the devil's leavings. —Swift.

Vain? Let it be so! Nature was her teacher;

What if a lovely and unsistered creature,

Loved her own harmless gift of pleasing feature? —O. W. Holmes, "Iris, Her Book."

Do not allow yourself to get angry or worried. There is no way of measuring the wonderful power of a cool, determined mind.

Certain thoughts are prayers.

There are moments when, whatever be the attitude of the body, the soul is on its knees. —Victor Hugo.

Life is a battle, and to fight that battle heroically and well is the great purpose of every man's existence, who is worthy and fit to live at all.

Saint Augustine, well hast thou said

That of our vices we can frame

A ladder, if we will but tread

Beneath our feet each deed of shame.

—Longfellow.

We must all hang together or assuredly we shall all hang separately. —Benjamin Franklin, at the signing of the Declaration of Independence.

I have somewhere seen it observed that we should make the same use of a book as a bee does of a flower; she steals sweets from it; but does not injure it. —Colton.

I have thought how careful one ought to be, to be kind and thought-

ful to one's old friends. It is so soon too late to be good to them, and then one is always sorry. —Sarah Orne Jewett.

What, that is virtue, but repose of mind,

A pure ethereal calm, that knows no storm;

Above the reach of wild ambition's wind,

Above those passions that this world deform

And torture man. —Thomson.

Her voice was ever soft,

Gentle and low, an excellent thing in woman.

—King Lear.

No man or woman of the humblest sort can really be strong, pure, and good without the world being the better for it, without somebody being helped and comforted by the very existence of this goodness. —Phillips Brooks.

An empty purse is bad; an empty mind is worse, and an empty heart is the most deplorable kind of poverty.

Cowardice asks, is it safe? Expediency asks, is it policy? Vanity asks, is it popular? But conscience asks, is it right?

Book Notices—Concluded.

"Cabbage, Canliflower and Allied Vegetables, from Seed to Harvest," by C. L. Allen, author of "Bulbs and Tuberos-rooted Plants." Illustrated, 12mo, 100 pp., cloth, Orange Judd Co., New York. Price 50 cents.

The raising of cabbage for the market has of late years become a very extensive industry, and information on many details of the subject is in demand by the growers.

The above named book seems to meet all requirements. The author has devoted a lifetime to this study, and is largely and practically interested in the industry. The information given in regard to the preparation of the soil, sowing of the seed, and best varieties for the market will be extremely interesting and valuable to all who are engaged in the business.

The fungous diseases and insects which attack this class of vegetables are given due attention, with the latest and most effective means for their prevention and destruction.

The practical tone of the entire work assures safety in following the instructions given in its pages.

In that charming book, "The Farmstead," by Dr. I. P. Roberts, the advantages which a child brought up in the country has in comparison with one reared in the city, are convincingly stated. The author says: "The farm child has an incessant, varied and unconscious training of the eye, the hand and the mind. While he is developing strength, symmetry, courage, the mental is being co-ordinated with the physical. The hand is made to obey the will, while the fact that the handicraft is made useful lends charm and delight to the work. The city child must try to learn by a course of manual training in some public school, what the country child picks up unconsciously in the natural process of play and work."

"After half a century, I look back to one of the happiest moments of my life, when I presented my mother with a dove-tailed wooden flower box, painted bright red. That flower box first taught me how to make wood take the form desired." The Farmstead, by Isaac P. Roberts, The Macmillan Company, New York. Price \$1.50.

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I Don't Like no Cheap Man, Can't Lose Me, Charlie, Better than Gold, The Dying Girl's Request, She's Good Enough for Me, Two Sweethearts of Mine, I Love Her Just the Same, The Tattoo on the Arm, My Pearl's a Bowery Girl, A Cruel Kiss,

Those Wedding Bells Shall Not Ring Out, Keep Those Golden Gates Wide Open, Mami! Come Kiss Your Honey Boy, Let Me Kiss Your Tears Away, On the Banks of the Wabash, The Sidewalks of New York.

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Transplanting Wild Flowers—Concluded.

and rather long stalked. The roots are clustered and fleshy; we may find it together with the hepaticas in the woods quite frequently. In the same places and at about the same time, we can gather the wood anemone (*Anemone nemorosa*). Its flower stems are six to eight inches high, bearing a single white flower, white, but often tinged purplish on the outside; the flower is surrounded by three wedge shaped leaves, each having from three to five leaflets.

Houstonia cerulea (Bluets) a little gem, found on moist banks and in grassy places along the river banks, growing only three to five inches high, has very small oblong leaves and very slender, threadlike, erect stems; the flowers are very pale, purplish, sometimes almost pure white, long stalked, terminating in a funnel shaped four-lobed corolla. The little, delicate plants are densely covered with their small flowers in April and May. From a distance, a patch of these among the grass may easily be mistaken for a piece of paper which the wind blew there.

But the list is getting too long perhaps for the young readers. I only will say in conclusion, that all the plants mentioned above are so called hardy herbaceous plants, which will come up and flower freely every spring; you only have to keep the weeds down and give them the benefit of an occasional watering in dry weather. They will amply repay for this trouble by blooming more abundantly than they ever did in a wild state. Try and find some for your garden. All of these will do well in yards where there is not much sun, though it is not imperative that such a place be provided for them.—*J. B. Keller in Rochester Democrat and Chronicle.*

Household Towels.

In choosing bedroom towels one has an almost unlimited range; they may be fringed or hemstitched, or they may be bought by the yard and finished at home. They are to be found in all qualities, styles and colors, but for general purposes, they should not be too elaborate in style, but should, rather, be selected with regard to their durability. However, such towels as are not intended for constant use may be much finer and more dainty in form. A silky damask material would be very lovely, and this should have the owner's initials or monogram embroidered at the center of one end, with white Asiatic rope silk in an effective manner.

There are many varieties of bath towels to be found in the market at the present day, but perhaps the most satisfactory kind one could procure is the old fashioned Turkish towel, which absorbs the water so quickly, and while it is soft, yet causes a slight friction.

Kitchen towels should be unlimited in quantity, separate and finer towels being kept for silver, glassware and finer china. For general use, one should not err in procuring material too coarse, as it would never really become soft and pliable. Fine Russian crash would be found to be very serviceable.—*Eva Marie Kennedy.*

Children's Food.

Try some of the good, old fashioned dishes for the children's supper and see if the grown folks don't show a hankering after the same thing. For instance, order the cook to fill a big, sheet iron pan with sweet apples and place them in the hot oven until nicely baked. Serve them with crumbled bread and rich, creamy milk and see how the result is relished. Take the dry crusts of bread and brown them thoroughly in the oven, then roll them to coarse crumbs. Don't let the cook grab them for crumbed dishes, but give them, fresh and crisp to the children with cream. Hot gingerbread makes an appetizing and attractive as well as healthful dessert for the noonday meal and will be relief from the inevitable "plain rice" or "apple and sago" puddings, which somehow pall on the little ones after a few appearances. For eating between meals, if allowed at all, one should furnish nothing more fanciful than oatmeal or graham crackers with a glass of milk. Some families allow no eating between breakfast and dinner, but between dinner and supper give one plain luncheon of crackers and milk. This strikes me as not a bad idea.

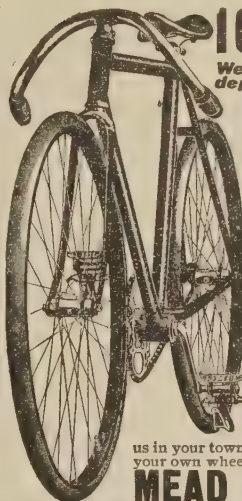
Caring for the Children's Teeth.

Mothers are beginning to realize the importance of taking care of the children's first teeth, in order to insure a good, sound "second set." It should be remembered that when a child has twenty teeth—ten upper and ten lower—all that are added belong to the permanent set, which should be carefully preserved. This precaution is very important, as decay in the first double teeth is sometimes allowed to progress, with the idea that these are transient and will be replaced. This is not so, and the very first indication of decay should receive immediate attention. The children should be early taught to wash the teeth after each meal; and if this habit is established while they still have their first teeth, there will be very little danger of their neglecting the permanent set.

A Good Brown Bread.

Two cups of sour milk, two cups of Indian meal, one cup molasses, one cup sifted graham flour, one and a half teaspoonfuls of baking soda, sifted with one-third cup of white flour, one teaspoonful salt. Mix molasses and sour milk, then stir in the meal and flour; pour into two small buttered pails and steam three hours, then set in the oven and bake from twenty minutes to half an hour. Sweet milk may be used if preferred. Do not throw away the bran that is left after sifting the graham flour. It makes an excellent and nutritious jelly.

If a man die in his infancy, he hath left us at dinner; it is bedtime with a man at three-score and ten; and he that lives to a hundred years hath walked a mile after supper. The life is but one day of three meals, or one meal of three covers: childhood, youth and old age; to sup well is to live well and that's the way to sleep well; no man goes to bed till he dies, nor wakes till he is dead.



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which costs but \$1 per year. This is not a cheap jumbled-word contest, and we do not expect any but those who can afford to subscribe for this most popular, up-to-date, 100-page magazine in America, to answer it. The results will be announced and the winners notified of the date of "The National Magazine" convention, to be held at Buffalo some time in August, and the gathering will include most of the contributors of The National Magazine as well as those who succeeded in the prize competition. We desire to make it a delightfully profitable outing for all.

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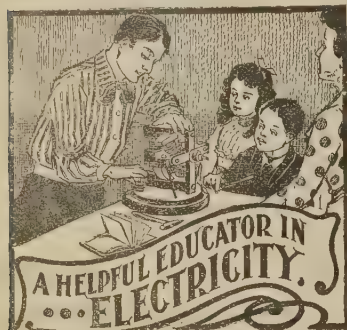
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**OUR POULTRY PAGE**

J. W. Burgess

Encourage the clucking hen.

Try your level best to get out some chicks this month.

Kill off the scrubs. A few of them spoil the appearance of an otherwise handsome flock.

Unless she is a valuable one, it hardly pays to spend much time in doctoring a sick hen.

Goose eggs are good to use and to eat, though they are just a little stronger than hens' eggs.

When your hens are inclined to be dumpy, skip a meal three or four times a week. They won't starve.

Eggs laid by overfed, fat, lazy hens, are not the best for hatching purposes. They are quite apt to be unfertile.

A hen drinks more water if she can get it fresh, than any other creature of her weight. Plan to furnish her all she wants.

Many poultrymen keep the cocks separate from the hens except at breeding time. They are not at all necessary for the production of eggs.

Just at this season the average hen would rather have half a dozen fat earth worms, than an entire meal of corn mush, and they will be better for them.

Snip up some grass with a pair of shears, for the little chicks. They will enjoy it greatly and need it in their business, which is to grow and be healthy.

Remember, that it is just as much trouble and expense to raise a brood of mongrels that you will be ashamed of, as it is to raise thoroughbreds of which you will be proud.

The general verdict is that the early hatches produce a much larger proportion of cockerels than the later ones, and the early hatch that produces one-half pullets is an exception.

If you have not already done it, burn up all the old nests, and after cleaning the boxes well, and kerosening them thoroughly, fill with fresh straw. The best time to fight lice is before they appear.

Rub the old hen under the wings and fluff with a cloth saturated with kerosene. This will be communicated to the chicks when they are hovering, and will act as a lice exterminator, as well as a preventive.

Grease the top of the heads of the chicks about the first thing you do. That will kill any of the big lice that may have staked out a claim there. They bore into the top of the chick's head, and soon kill them.

Whatever your hens do in the day time, they should have a warm, dry place at night. You know that a warm bed will go a long way toward keeping you in good condition. It is the same with your hens.

It was mean for the Egyptians to compel the Jews to make bricks without straw, but it is meaner to ask your hens to make shells without lime. Feed ground oyster shells. They are at once lime and grit, and the hens need both.

There is nothing better for the young chicks than hard-boiled egg. And that is a good way to dispose of the ones that failed to hatch because they were unfertile. Later in the season it would be risky, as they might be spoiled.

If your hens can get plenty of grass, and pick it herself, she will need little other food. She will fill her crop several times a day.

Have you made a start toward securing some regular customers for your egg product, among private families? Better do it; for they will cheerfully pay two or three, or five cents a dozen more than you can get at the stores, in order to get fresh eggs.

Two boards a foot wide 12 or 14 feet long, and two more 4 or 5 feet in length nailed across the ends, box shaped, and covered with wire netting, makes an excellent run for chicks, where cats abound. It can be moved from place to place, and thus a change of scenery and picking be secured.

Many people, of late, set several hens at once, and raise the chicks in a brooder, setting the same hens again on a new lot of eggs. The experience with most people is, though, that it is easier to hatch chicks than to raise them, so that the advantage of hatching with hens instead of an incubator is small.

If you have a stream of water or a pond, you should by all means raise geese. They will require almost no attention during the summer, and will rough it in the winter with the best of them. There is always a market for them dead or alive. Better set the eggs under a hen. The hatch will receive better care.

They say that sun flower seeds are great egg-producers. If that is so, perhaps you would better arrange to plant some seed. It will grow in any climate and on any soil, and besides being ornamental, it will occupy little space along a fence on ground which would be used for nothing. Try it this year. There are several varieties. Probably the best for your use will be the Mammoth Russian.

Reports from all sources show that the early hatchers of eggs have been very unsuccessful, whether by hens, or incubators. The reason is that the long cold winter left so little surplus vitality in the hens, that they could impart so little to the eggs, and of necessity, the eggs were either not fertile at all, or the germ was so weak that the chick, though it may have started to hatch, died before its time was up, and a lot of worthless eggs, and a big batch of disappointment were all that the owner had to show for his month's labor. The later hatches have been more successful, and quite a good showing of May's chicks are peeping though the April variety are extremely scarce, as a rule.

Everybody should have a hobby outside of his regular business. Perhaps the poultry business, in a mild form, would just fill the bill in your case. Of course you can say every egg you secured would cost you a dollar, but that would be your own fault. Read up a little; ask a lot of questions; go and poke your nose into every poultry ranch you know of; and learn all you can in this way, and then decide which breed you like best. Secure the best you can afford of that breed and start in mildly, feeling your way along. If you don't gain enthusiasm as you progress, and rather enjoy the work despite your many discouragements, then you would better stop and sell out, or eat up your stock. If, on the other hand, you like it, and find pleasure in fuss-

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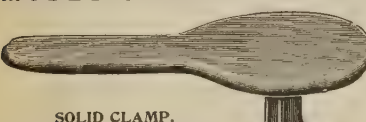
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ing with your hens, keep it up and learn all you can by experience. Many of the most extensive poultry fanciers in the country started in that way, and you may find it so pleasant and profitable as a side line, that you will decide to make it your chief business. Properly conducted, there is money in poultry, though there is also a fine chance for a man to drop quite a bundle if it is not handled as it should be. There is no business that requires more of the quality known as "eternal vigilance" than handling poultry, and the more of that you mix with your other rations, the larger returns you will reap for your labor.

Don't keep too many fowls, especially if you live in town. This is a common fault and is brought about in several ways. A person decides to keep fowls, and buys half a dozen pullets. He takes the best of care of them; they have all the room they want, and every variety of feed that the ingenuity of the owner can suggest, besides the "scraps" from the table, than which there is nothing better. The result is that he is rewarded by securing eggs in abundance. He has more eggs than he cares to use and gets a habit of selling an occasional dozen or two to a neighbor. That seems like business, and he sees an actual profit in keeping hens. That sets him figuring, which process soon develops the fact that if six hens lay three dozen eggs in a week, sixty hens would, of course, lay ten times as many, or thirty dozen. Thirty dozen eggs at twenty cents a dozen would be six dollars, a week. Gee! Nearly enough to support the family. Away he goes and buys some more hens; sets some eggs; hatches out his chicks; loses three-fourths of them, and one-half of the remainder are cockerels. When the grand round-up comes, he finds that he has exactly thirty hens, including his original six. Well, that is five times as many as he had the year before, so he figures on fifteen dozen eggs a week, which won't be at all bad. Does he get them? Nay verily. On the contrary, he doesn't get as many as he used to when he had but six hens. The explanation is simple. First, his enthusiasm has had a tremendous cooling off; second, his thirty fowls are crowded into the same quarters that formerly accommodated but six; third, the fact that a much greater amount of feed is required, renders it more of a task to furnish it, and the variety that tempted his original six fowls is found sadly wanting in the ration served up to the thirty. The fact that the proportion of eggs is so much smaller than under the old regime, brings with it a discouragement and lack of interest that makes him spend a little time with the fowls, as possible, where he formerly spent as much time as he could. He soon loses interest entirely and sells his entire flock, or eats them, and puts the chicken business down as a losing game. This is one of the ways, and a very common one, in which men are apt to get too many fowls, and one of the results that quite naturally follow such a mistake. So we say, don't keep too many hens, or you are quite sure to share the same fate. If you have a nice, light, warm, roomy hen house, you may accommodate 18 or 20 hens, but the chances are that you

will gain more satisfaction, and gather more eggs with only half that number, unless you are an old hand at the business and have passed the experimental stage.

Orchard Pests and the Remedy.

Concluded.

of water with a little coal oil or kerosene floating upon its surface was devised by myself and thoroughly tested and accomplished this object.

It proved a great success and I was granted a patent upon the same.

I have noticed the truth of what Prof. Ridley of New York states with regard to the activity of insects and their especial attraction to a light while hunting their mates. He says: "Any one can see in the mating season how they will be attracted by a lamp in the house, and it is astonishing to see the numerous quantity of insects around the electric lights, in their natural mating season."

In front of my apple house door, I caught one hundred and forty codling moths in a single night in one trap. My brother caught forty-eight in one trap in front of his apple house door in one night.

These insects were hatched from empty boxes and barrels in which we had stored apples.

The use of these Moth Catchers last year, made perfect fruit and gardens and as the birds once destroyed the insects and gave us perfect fruit, so today prevention is better than cure; and as the birds which once destroyed the insects are being killed, this trap accomplishes the same purpose by doing the work which they did. In the last three years another insect has been doing more damage in this locality than the codling moth. I speak of what is here called the Pin Worm. It makes a pepper box of the stem end of the apple. This insect or its larva can not be reached by spraying, but is effectually eradicated by this Moth Catcher.

Creamed Eggs.

A very nice dish for breakfast or supper is to boil hard one dozen eggs, cut up small, season with salt and pepper; add to these one pint of white sauce. It is good then, or perhaps better if put into a baketin with bread crumbs and a little butter put on top, and browned.

A Breath of Spring.

There stole into my room today,
A little breath of spring—
A premonition of happy May
And sweets that May will bring.

It was a burst of woman's song,
Eight little blithesome bars—
A song that speeds the world along
Its pathway in the stars.

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It made my soul serene;
It spurred me on by labor's way—
This song by my May Queen.

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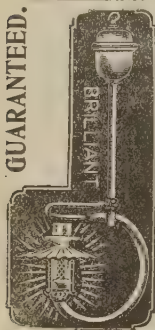
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HOW THE FAMER CALLS HIS COWS

In Different Regions of the United States.

In a paper on the calls to animals, read by Prof. George Hempi before a gathering of philologists at Philadelphia recently, was the following relating to the calling of cows: "We do not often regard as real speech the words, calls and inarticulate clucks and grunts that we used in addressing animals. They constitute, however, a form of speech that not only is interesting in itself, but may also be made to throw light on the more usual form of language. In speaking to animals we are not restrained by any consideration for what is, or is said to be, correct or elegant, hence the development of such speech is natural and quite unrestrained. Moreover, in addressing the animals we permit ourselves to indulge the feelings that dominate us at the time and use soothing, gentle words and terms, or hurl loud, rude orders at them. Thus it becomes possible to observe the effect that such repeated indulgence of feeling has upon the word usually employed, more than can be done in the study of words generally employed only in a conversational tone.

But there is still another way in which the study of this form of speech may be made of use in general linguistic investigation, namely in determining the dispersion and extent of our dialects. The farming population of a country makes up the great stable portion of the nation. In many ways it is the determining element, and a study of it and its ways throws light on the nation as a whole and its probable future. It is possible to divide the country into dialect districts on the basis of farm usage in so apparently unimportant a matter as the way of speaking to horses, cows, pigs, etc.

To show how different usage is in these matters, it will only be necessary to call attention to some of our local calls to cows. 'Co' boss' is the normal call in the North, and may be heard here and there in other parts of the country. It came to us from southern or Saxon England. 'Co' mully, which is frequent in Maine and other parts of New England, is rare elsewhere. In the Midland and the South the most common call is 'sook' or 'sook cow.' This was originally addressed only to calves, and is a form of our ordinary word suck. The use is still restricted to calves in northern England and Ireland, as also in some parts of this country. But in the largest portion of our continent the word has grown up with the 'critter' and is the normal call to cows, while some diminutive like 'soocky' is used to the calves. In the southeast there are many forms of the good old call, 'come wench,' which goes back to the time when wench designated a perfectly respectable young woman. In New Jersey and southeastern New York we still find 'cush,' a call that is common in northeastern England, and is originally of Scandinavian origin. It has found its way into literature in Jean Ingelow's 'The High Tide':

Cusha, 'cusha, cusha, calling,
Ere the early dews were falling.

In driving cows, various forms of 'Hurry' or 'Hurry up' and 'Go long' are most frequent. Calves are gen-

erally addressed in the same way, but in the Southwest, 'S'calf or 'Hiss calf' is very common. Like 'S'cat,' it was originally addressed to the dog that was to sick (originally seek, as is still often said in England) the calf, and in time was used to intimidate the calf whether there was a dog within hearing or not. The farthest East that I have found 'S'calf is in Pennsylvania.

Various interesting words are used at milking time. The commonest words employed to quiet a cow is 'So,' appearing in the forms, 'So boss,' 'Saw cow,' 'Saw wench,' 'Soo,' etc. The pronunciation 'saw' is peculiarly southwestern. So is the usual form elsewhere, but 'Soo' is found here and there, especially in the Northwest. When a cow is to be milked, she is ordered to move over by the 'Stand over,' 'Get over,' or 'Get round there!' 'Stand over' is sometimes corrupted to 'Han' over.' The usual word of the milker is 'Hist,' a form of hoist, corresponding to 'pint' for 'point.' But in the South, 'Back' and 'Back your leg' are in general use."

The Pain of Absent Limbs.

The poor man with amputated legs who committed suicide because his absent toes pained him was not, as might be supposed, suffering from a mere delusion.

The sensation of which a similar class of sufferers so often complain is mainly due to some injured or diseased condition of the end of the divided nerve which as a whole formerly supplied the toes and fingers of the severed limb. Sometimes the main trunk of the nerve has its end unprotected from direct injury by want of a sufficiently thick cushion of flesh at the end of the stump, but more frequently its sensitive filaments are pinched in a contracting scar.

When it is known that the impressions of pain or touch are conveyed to the brain from the extremities of the nerve it is easy to understand that the law of such transference is maintained even when the main trunk of the nerve only remains.

In other words, when there is only a common signal for every end station along a given telegraphic line there are no means of distinguishing messages from far or near points. With the brain the terminal point is the one always credited. Thus with central in New York, Detroit might be mistaken for Chicago, Philadelphia for Washington or Omaha for San Francisco.

Not only is actual pain experienced in limbs that are gone, but the main nerve when irritated in any part of its course continues by a force of habit to pervert and misdirect all the various and complex phenomena of touch, position, muscular tension, cramp and the like.

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Patients at times complain that the lost fingers feel as if awkwardly bent, the toes as if cramped, the feet cold or the heel itchy. Hence it is often imagined by ignorant people that amputated limbs do not rest easily in their graves, and it is not uncommon for the unfortunate subjects of operation to insist that the severed limbs be placed in comfortable positions when laid away.—*New York Herald.*

Some Familiar Trees.

THE ELM.—Nobody knows New England who is not on terms of intimacy with one of its elms. The elm comes nearer to having a soul than any other vegetable creature among us.

THE OAK.—There is an affinity between all natures, animate and inanimate. The oak, in the pride and lustiness of its growth, seems to me to take its range with the lion and the eagle, and to assimilate, in the grandeur of its attributes, to heroic and intellectual man.—*Washington Irving.*

THE WEEPING WILLOW.—This tree has ever been regarded as the symbol of sorrow, and most appropriately, for not only do its pensive looking branches droop mournfully towards the ground, but even very frequently little drops of water are to be seen standing, like tears, upon the pendant leaves.

Light on the Canadian Census.

During last year the number of immigrants arriving at the port of Quebec was 46,888. The number of immigrants arriving in Canada in 1894 is estimated at 50,000. This number does not include expatriated French Canadians, of whom 40,000 were estimated to have returned to the province of Quebec from the United States during the summer of 1894. According to Sir Richard Cartwright, 886,000 immigrants arrived in Canada during the past ten years at a cost to the Canadian government of about \$3,000,000. Of the whole number arriving according to the same authority, hardly 150,000 remained in Canada, the rest going to the United States.—*The Annual Cyclopaedia, 1894.*

According to the lists prepared in accordance with the electoral franchise act, there were in 1895, 1,353,735 voters in Canada, for Dominion purposes, compared with 1,182,201 in 1891, and 993,914 in 1887 and The Annual Cyclopaedia, 1895.

The number of immigrants that arrived in Canada in 1893 was 22,781. Of these, 9,119 were from the United States, 9,475 from England, 733 Irish, 1,400 Scotch, 563 German, 724 Scandinavian, 545 French and Belgian, 5,509 Grecians, and 3,832 other denominations. There was also a marked falling off in juvenile immigration under the auspices of philanthropic persons and societies. The states in this latter class of immigrants since 1893 shows a total of 11,187.—*The Annual Cyclopaedia, 1899.*

The opportunity to make an estimate on the population of Canada has been extended until June 1 And this is positively the last date in which estimates can be made. The contest will be closed, however, sometime before the official figures are given out so that there will be no advantage whether your estimate was put in early or late.



Pretty Hair

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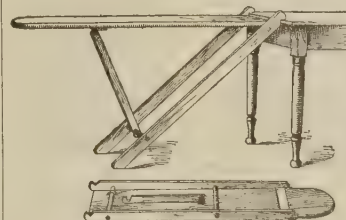
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Sunshine Land.

They came in sight of a lovely shore,
 Yellow as gold in the morning light;
 The sun's own color at noon it wore,
 And faded not at the fall of night;
 Clear weather or cloudy—'twas all as one,
 The happy hills seemed bathed with the sun;
 Its secret the sailors could not understand,
 But they called the country Sunshine Land.

What was the secret? A simple thing—

It will make you smile when once you know—
 Touched by the tender finger of spring
 A million blossoms were all aglow;
 So many, so many, so small and bright,
 They covered the hills with a mantle of light;
 And the wild bee hummed, and the glad breeze fanned
 Through the honeyed fields of Sunshine Land.

If over the sea we two were bound,

What port, dear child, would we choose for ours?
 We would sail and sail till at last we found
 This fairy gold of a million flowers.

Yet, darling, we'd find, if at home we stayed,
 Of many small joys our pleasures are made;
 More near than we think—very close at hand—
 Lie the golden fields of Sunshine Land.

—Edith Thomas, in New York Weekly.

Rather Too Late.

"If folks could have their funerals when they are alive and well and struggling along, what a help it would be!" sighed Aunt Jerusha, folding her paisley shawl with great care.

"Now, there is poor Mis' Brown," she added, as she pinned her Sunday bonnet into the green veil. "How encouraged she'd have been, if she could have heard what the minister said today! I wouldn't wonder one mite if she'd have got well.

"And Deacon Brown a-wiping his eyes and all of them taking on so! Poor soul, she never dreamed they set so much by her!

"Mis' Brown got discouraged. Yer see, Deacon Brown, he'd got a way of blaming everything onto her. I don't suppose the Deacon meant it—'twas just his way—but it's awful wearing. When things wore out, or broke, he acted just as if Mis' Brown did it herself on purpose. And they all caught it, like the measles or the whooping cough.

"And the minister a-telling how the Deacon brought his young wife here when 'twasn't nothing but a wilderness; and how patiently she bore hardship, and what a good wife she'd been! Now the minister wouldn't have known anything about that if the Deacon hadn't told him. Dear, dear! If he'd only told Mis' Brown herself what he thought, I do believe he might have saved the funeral.

"And when the minister said how the children would miss their mother, seemed as though they couldn't stand it, poor things! Well, I guess it is true enough; Mis' Brown was always doing for some of them. When they were singing about 'sweet rest in heaven,' I couldn't help thinking that that was something Mis' Brown would have to get used to, for she never had none of it here.

"She'd have been awful pleased with the flowers. They were pretty, and no mistake. You see the Deacon wa'n't never willing for her to have a flower-bed. He said 'twas enough prettier sight to see good cabbage a-growin'; but Mis' Brown always kind of hankered after sweet-smelling things, like sweet peas, and such.

"What did you say, Levi? Most time for supper? Well, land's sake,

so it is! I must have got to meditating. I've been a-thinking, Levi, you needn't tell the minister anything about me. If the pancakes and the pumpkins pies are good you just say so as we go along. It ain't best to keep everything laid up for funerals."
 —Zion's Herald.

Home.

Recently a London magazine sent out 1,000 inquiries on the question "what is home?" In selecting the classes to respond to the question it was particular to see that every one was represented. The poorest and the richest were given an equal opportunity to express their sentiments. Out of 800 replies received, seven gems were selected as follows:

1. Home—A world of strife shut out, a world of love shut in.

2. Home—The place where the small are great and the great small.

3. Home—The father's kingdom, the mother's world and the child's paradise.

4. Home—The place where we grumble most and are treated the best.

5. Home—The centre of our affections, round which our heart's best wishes twine.

6. Home—The place where the stomachs get three square meals daily and our hearts a thousand.

7. Home—The only place on earth where the faults and failings of humanity are hidden under the sweet mantle of charity.

What She Learned.

"I thought it was a pretty fair sort of telescope for one that wasn't very big," said Uncle Silas. "I'd rigged it up in the attic by the high north window, and had it fixed so it would swing round easy. I took a deal of satisfaction in looking through it—the sky seemed so wide and full of wonders; so when Hester was here I thought I'd give her the pleasure, too. She stayed a long time upstairs, and seemed to be enjoying it. When she came down, I asked her if she'd discovered anything new.

"Yes," she says. "Why, it made everybody's house seem so near that I seemed to be right beside 'em, and I found out what John Pritchard's folks are doin' in their out-kitchen. I've wondered what they had a light there for night after night and I just turned the glass on their window and found out. They are cuttin' apples to dry—folks as rich as them cuttin' apples!"

"And, actually, that's all the woman had seen! With the whole heavens before her to study, she had spent her time prying into the affairs of her neighbors! And there are lots more like her—with and without telescopes."—Wellspring.

And now it is claimed that a dish of cold water at the head of the bed will prevent and cure restlessness and sleeplessness. Towels wrung from cold water and hung in a hot room will purify the air and lower the temperature several degrees.

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Pure, healthful, invigorating drink. 1 gal. package, 10 cts.; 3 gal., 25 cts. **The Alton Co., Clarendon Bldg., Utica, N. Y.**

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LADIES do needle work at home, \$5 to \$8 per week. Material furnished free. Six months' work. Stamped envelope for particulars **Home Industrial Co., 90 Washburn Chicago.**

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MARRIAGE PAPER Best Publishing—FREE. **J. W. GUNNELS, Toledo, Ohio.**

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MOTHERS If your children suffer with Croup, Whooping Cough, or Bladder weakness, send for a free box of **PINKETTES**, cures every case, old or young. **Mo. Remedy Co., St. Louis, Mo.**

Goldene silver polish. Nothing like it, used once it becomes a household necessity. P. Pe 20 Agents wanted. **MacClement Mfg. Co., 1024 Powell Av., Evansville, Ind.**

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CANCERS AND MALIGNANT GROWTHS quickly cured. No operation, no pain or loss of blood or strength. My treatment will not disappoint you. No cure no pay. Herald of Information sent free. **DR. E. V. BOYNTON, Lawrence, Mass.**

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OPIUM and **Liquor Habit** cured in 10 to 20 days. No pay till cured. Write **DR. J. L. STEPHENS CO., Dept. E. 2 Lebanon, Ohio**

WATCH AND CHAIN FREE.

We give this splendid American Nickel Watch, fine timekeeper, warranted in every way with a chain, to every one selling 18 Roman Gold Scarf Pins at 10c. each. Send us your name and address—No money—and we will send you the Scarf Pins to sell. They are beautiful and can be sold easily. When sold send us the money and get Watch and Chain at once. Other premiums. **EXCELSIOR NOVELTY CO., Dept. V, 10 E. 14th St., New York.**

A VETERAN in Skillful Treatment

For many years Dr. Orin Davis, Attica, Wyo. Co., N. Y., has treated with phenomenal success Chronic Diseases, especially pelvic ailments and Weakness Incident to Women, by new remedies and original methods. He sends a complete course of Local and Constitutional Remedies for Home Treatment, adapted to the needs of each case, as disclosed by symptoms in answer to questions in "Our Universal Interpreter," found in **Welcome Words To Women**, free by any address. No charge for consultation or advice. Terms for Prescription reasonable. We solicit correspondence.

Items of Interest.

Gibbon says that sugar was first brought from Asia to Europe A. D. 625.

Zola's income from his books for 1900 is said to have amounted to something over \$15,000.

Up to January 1 last, the Massachusetts highway commission had improved 316 miles of road at a cost of more than \$3,000,000.

The fight against slavery in this country was a prolonged one. In 1775, in the city of Philadelphia, the first anti-slavery society was organized.

The King of Siam wears what is probably the richest state attire of any reigning monarch. The jewels worn on such occasions are valued at over \$200,000.

Italy's new coinage with the head of Victor Emanuel III., will be ready soon. The dies have been cut by Cavaliere Speranza, the engraver of the coins of King Humbert.

There are now fifty-four agricultural experiment stations in the United States, with 678 employees. During 1899 these stations published 445 annual reports and bulletins, containing 16,824 pages.

The moving sidewalk of the Paris exposition was a great success; 6,694,308 persons paid for the privilege of using the platforms, while only 2,635,867 used the railway that carried passengers in the other direction.

The French minister of war has ordered the construction of twenty submarine torpedo boats. The tonnage of these vessels will be about seventy, and they will be built at the dock yards at Toulon, Cherbourg and Rochefort.

At the Paris exposition the United States weather bureau was awarded a grand prix. Gold medals were also awarded to Prof. C. F. Marvin for instruments, apparatus and appliances, and to Prof. A. J. Henry for cloud photographs.

A recent census of the population of Rio de Janeiro gives the city approximately 650,000 inhabitants. This is much smaller than was generally supposed. In all, there are 60,132 houses and dwellings, giving the large average of ten people each.

An eminent Iowa editor has looked up President Jefferson's private expenses. He spent \$263.19 more than his salary. He spent \$1,295.98 for wines and \$2,014.80 for servants. This was Jeffersonian simplicity. It was in the days of blue jean trousers and coon skin caps—in the artless and innocent period of the republic.

"Oh, stop! stop!" cried Willie's papa. "Haven't I told you not to ask foolish questions? Everything I say to you goes in one ear and out the other."

"Pa," said Willie, several minutes later, "if you was to plug up the other ear what you say to me would have to turn around and come out where it went in, wouldn't it?"—*Philadelphia Press.*

Princess Louise of Bavaria, wife of the heir presumptive, has formed a league for the curtailment of the skirts of women's walking dresses. The leading society women of Munich have joined the league and are working strongly for dress reform.

Of the pure Hawaiians 83 per cent., and of the part Hawaiians 91 per cent., can read and write. Out of a population of 196,030 the Hawaiians form 96 per cent., a little more than one-third. But of the children in the schools the Hawaiian and part Hawaiian number one-half.

Schlatter, the bogus Messiah and divine healer, now registers at Sioux Falls hotel as Dr. Charles McLean. He formerly professed to work miraculous cures without compensation; now he claims to have drawn a \$15,000 fee from Richard Croker, the Tammany leader.

From Dalmatia has come a perennial cabbage, which forms the principal food of hundreds of families in Dalmatia. It grows to a height of five feet and bears tender leaves throughout the winter. These are picked singly or the whole head is cut and the stems sprout again.

The United States is now patronizing the banana plantations of the West Indies and of Central America to the amount of about \$8,000,000 a year. That is the exporting, not the retail value. The island of Jamaica alone sending to this country over 4,000,000 bunches a year.

The many visitors in southern California can be accommodated with all sorts of curios found in that delectable land. Horned toads, centipedes, scorpions and tarantulas are much sought after, and they buy them of men who are regularly in the business of selling them. They are considered quite an addition to eastern private museums.

In the palmy days of Greece three philosophers sat against the sunny side of the temple, discussing the infinite and the branches thereof.

A woman, said one, dresses to please the men.

A woman, said the other, assertively, dresses to worry the other women.

The discussion waxed acrimonious, until both appealed to the third, who belonged to the school of the trimmers.

A woman, said he, dresses to please the men, and thereby worry the other women.—*Modern Society.*



SAVE YOUR CLOTHES and don't wear them soiled or shabby. AS A 25c. PACKAGE OF **RENOVITE or CLEANITE** will clean like new, one to three suits, and revive color and freshness to all fabrics. Use Renovite for dark and Cleanite for light goods. Process is simple, anyone can do it. Just brush it on. **PACKAGE 25c. EA., POST PAID Bohner Mfg. Co., 42 State, Chicago.**



The Secret of a Good Complexion

Every lady should embrace this opportunity to secure a sample package of **Dr. Campbell's Safe Arsenic Complexion Waters** and a cake of **Pond's Medicated Arsenic Soap** for 25 CENTS. If you have pimples, freckles, wrinkles, blackheads, redness of face or nose, a muddy, sallow skin or any blemish whatever on or under the skin, you should procure at once these marvelous beautifiers of the complexion, skin and form. Send now or cut this out and send when it is convenient, as this offer will be good any time if ad is sent with your order. Address **H. B. FOLD, Room 53, 214 6th Ave., New York.** Sold by **Druggists Everywhere.**



Headquarters for peach, melon and grape baskets and berry boxes—Wells Higman Co.

FREE

DO YOU WANT A WATCH that runs and keeps good time? This watch has a **SOLID GOLD** laid case, handsome dial, dust proof, adjusted to seconds, patent escapement, and highly finished. This is a remarkable watch. We guarantee it, and with proper care it should wear and give satisfaction for years. It has the appearance of a \$40. **SOLID GOLD** one. The watch is accompanied with a 30 YEAR GUARANTEE. The case is beautiful and with the most skilled workman. The movement is an **AMERICAN STYLE**, expansion balance, quick train, and you can rely upon it that when you own one of these truly handsome watches you will at all times have the correct time in your possession. Just the watch for railroad men, or those who need a very close timer. Do you want a watch of this character? If so, now is your opportunity to secure one. **WE GIVE IT FREE** as a premium to anyone for selling 18 pieces of our handsome jewelry for 10c. each. Simply send your name and address, and we will send you the 18 pieces of jewelry postpaid. When sold, send us the \$1.80 and we will send you the handsome **SOLID GOLD** laid watch. We trust you, and will take back all you cannot sell. We propose to give away these watches simply to advertise our business. No establishment in this advertisement. We mean just what we say. You require no capital while working for us. Address **SAFE WATCH CO., Box 150, New York**

CATARRH is the most prevalent of diseases. It is a local ailment of the mucous membrane as well as constitutional and **CAN BE CURED** thousands since, and by using Dr. Sykes' Sure Cure for Catarrh will cure you. Send for the best book on catarrh ever published. Mailed free. For sale by Druggists.

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THE LIGHTNING Compressed Air Sprayer PATENTED 1900. Holds four gallons. Pump in a little air with the pump which is attached to the reservoir. No more labor required. Will kill all kinds of insects. Will spray tall trees. Will spray two rows of potatoes at one time and as fast as the operator can walk. Big money for Agents. D. B. Smith & Co., Utica, N. Y. U. S. A.

\$5.00 IMPORTED TRIMMED HAT \$1.49. This beautiful hat retails at \$5.00. It is the Swell Parisian Model for a summer hat. It is more stylish and dressty, more becoming and handsomer than that on your milliner could possibly design and make. Handmade, trimmed with silk corded mull, large bunch of beautiful flowers, fancy ribbon and ornaments, can be ordered in black and colors. It is the greatest bargain you have ever seen. If you want the handsomest hat in your town, send your order with **\$1.49** to-day, and we will send at once. Mention this paper when you order, and we will send with each hat a beautiful 50c. hat pin. **BATES & CO., 160 CONGRESS ST., BOSTON, MASS.**

Spitting Bill The Wonderful Surprise Clown. This is a handsome scarf pin—with a tiny rubber hose running to a bulb in your pocket. Fill with water or cologne and give your friends the surprise of their lives. Squirts 20 feet. 20 cents postpaid. **NOVELTY SUPPLY COMPANY, 78 Dearborn Street, Chicago.**

PORTRAIT AGENTS. We can furnish you with Water Color Portrait framed complete for 95 cents. We give our agents credit. Send for particulars. Address, **Keystone Art Co., Dept. E. Batesville, Ind.**

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Reader, do you wish to know how to make more money, obtain greater happiness, have better health and achieve greater success in life? It is our business to help others—we are specialists in this line. Will you permit us to help you? It costs you nothing until we prove what we can do. We will send you our elegantly illustrated one hundred page book free. This remarkable work thoroughly instructs you in the underlying principles of success in every business and calling; it tells you how to cure every known disease and bad habit without the aid of drugs, medicine or the surgeon's knife.

It fully reveals the hidden mysteries of Hypnotism, Personal Magnetism, Magnetic Healing, etc. It tells you how you can quickly master these sciences in a few days at your own home and use this mighty power on your friends and associates entirely without their knowledge—new and instantaneous method which enable anyone to hypnotize quick as a flash. We guarantee success or forfeit One Thousand Dollars in gold. This wonderful book has proved the turning point in the lives of hundreds of persons, who were ready to give up in despair. Thousands owe their health, happiness and financial success to its teachings. It is full of wonderful secrets and startling surprises. It will be sent to any address absolutely free. A postal card will bring it. Address,

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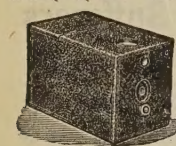
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Howan actress was almost KISS'D BY DEATH. The most exciting little book out. Illustrations from a snap shoot of the actual happenings. Don't miss it. Money back if not better than expected. Price 10c. Will Rossiter, 56-57th Ave., Chicago, Ill. Dept.

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Will you get CUPID'S ARROWS? 6100 Nervous Debility Pills Free (postpaid) Send self addressed envelope for free present. L. West, Avon, N. Y.

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Picture 2 inches square: camera finished in leatherette; press the button, the camera does the rest. Bushels of fun. You can carry it right with you in your pocket, and everybody you meet will want their picture taken. You get them to pose for you in some nice position, and tell them to look "pleasant" or at the "bird-ies" and to their surprise, after you press the button, they will have picture produced nicely mounted two inches square. You can make as many as they want, but one is all they will want, and that will almost make them die laughing. Everything works perfectly. Price complete only 20c, by mail postpaid, and a 6 mo. trial subscription to our illustrated monthly.

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112 page book, containing over 500 recipes. Sent for seven 2-cent stamps. The Alton Co., Clarendon Bldg., Utica, N. Y.

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WE will send our splendid illustrated magazine containing the choicest fiction and a great variety of instructive articles pertaining to agricultural matters, absolutely FREE FOR 3 MONTHS to every person sending us their name and address within the next ten days. 25,000 homes are brightened by the regular visits of this publication, and it is our desire to increase the number to 100,000 within the next three months. REMEMBER, there is absolutely no condition attached to this offer. Send us your name and address and receive FREE FOR THREE MONTHS the finest family magazine published.

The Rural American

91 Bedford St., Boston, Mass.

Ups and Downs of the Browns.

Brown has a cosy office
On the twenty-second floor
Of a modern office building,
With conveniences galore,
Electric lights and mail chutes
And everything first rate—
And an elevator starter
Who is strictly up to date.

Now Mrs. Brown came in one day,
A smile upon her face;
Took elevator No. 6,
And launched forth into space,
'Tis safe to say she'd hardly gone
Below the second floor,
When Mr. Brown came sailing down
Serene in No. 4.

"Hey, Mr. Brown!" the starter cried,
"Your wife went up this minute."
A car was just about to start,
And Mr. Brown jumped in it.
"You'd better wait till she comes back!"
The starter tried to shout,
And up went Brown—a car came down,
And Mrs. Brown stepped out!

The starter shook with hidden mirth
He didn't dare display;
"Your husband, mum, went back," he said,
"But crossed you on the way,
Just take a chair and rest a while,
He'll surely come right down."
She wouldn't listen; up she went—
While down came Mr. Brown.

He went back up—his wife came down,
And headed for the door,
While Brown ransacked in wild despair
The twenty-second floor.
As out into the street she passed,
With proud, uplifted chin,
"I hope they'll meet in heaven," said
The starter, with a grin.

—Smart Set.

The Assessor—Now, how much do you think your piano is worth?

Mr. Dodger—O, you had better put that in at \$30.

Mrs. Dodger—Indeed, you will not. That piano cost \$800, and you will put it down at that. I am not going to have those men down at the court house get the opinion that I would own a \$30 piano.—*Indianapolis News.*

Masters Arthur and Reese Murray, twin sons of the Rev. S. Reese Murray, have a wit all their own. The other evening at dinner the two, sitting side by side, began slyly tickling each other, until Arthur full of laughter, dropped a cup of coffee, which he was about raising to his lips. "What's the matter with you, boys? Have you got the palsy?" cried his brother. "No," said Arthur quickly; "I've got the dropsy."—*Baltimore Sun.*

Mrs. Parvenu was justly indignant. "How much for a gold chain like that?" she asked of the clerk. "We sell that by the link," he replied.

This it was that annoyed her. By the link. Heavens! It was evident he took her for some common person with a limited bank account.

"Sir!" she exclaimed, "I ain't here to trifle! How do you sell them chains by the yard?"—*Chicago Post.*

"Man Sandy, is that you?" exclaimed in surprise an old man in the street the other day. "Man, I thought ye were deed. I heard ye were drowned!" "Oh, no; it wasn't me," returned Sandy, solemnly. "It was ma brither."

"Dear me, dear me," murmured the old man. "Whit a terrible pity!" There was a somewhat thoughtful look on Sandy's face as he wandered away.—*Tit-Bits.*

WOULD NOT TAKE

TEN - THOUSAND - DOLLARS

Mr. H. A. Freeman of Long Island, N. Y., in speaking of his treatment for Obesity by Dr. Snyder said: "I would not take \$10,000 to go back to my former condition." There are many people to-day who are suffering from fatty degeneration of the tissues who desire to be possessed of a healthy and fine physique, who would be fine looking men and women were it not for superfluous flesh which gives them that monstrous appearance.

MEN OF SCIENCE SAY

"NO ONE WHO IS FAT IS HEALTHY." "Obesity is a disease. It results primarily from an unhealthy condition of the nerves which control the supply of gastric juices. It is a morbid physiological condition which causes discomfort and annoyance, and leads to complications which frequently endanger or shorten the lives of its victims."

HE WHO WAITS IS LOST. Don't put off taking treatment. My professional fees are reasonable, and I advise all those in need of my treatment to write at once. I charge nothing for consultation.

O. W. F. SNYDER, M. D.

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One Week

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Have you "THAT TIRED FEELING" as Spring comes on? If so, don't spend \$5.00 for five bottles of Sarsaparilla, because you can get from One Box of Australian Electric Pill Remedy, for \$1.00 more real value and better results. What is this remedy? We answer: The most perfect Laxative. The most perfect Tonic. The most perfect Nervine. The most perfect Appetizer. The

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It Contains No Poison, No Mercury, No Morphine, No Aloes Australian Electric Pills are a system treatment entirely filling the place of liquid medicines and are more than 100 per cent. cheaper and better. They seldom fail to cure and always give relief. Liquid medicines are no comparison, and as fast as the pleasant effects and immediate results of Australian Pills are known they become the family favorite. Every box is guaranteed to contain three times the medical properties found in ordinary liquid preparations on the market. We guarantee every box to give perfect satisfaction, or we will refund your money as freely as we have taken it. Regulate the Liver, Kidneys, Stomach and Bowels with this remedy and four-fifths of your ailments will disappear. It is also a great preventive of disease. Purify your blood and disease will die from want of material to subsist upon. Tens of thousands have used them for the past 5 years. We want an active agent in each town. You can not buy this remedy at the stores. You must order from an agent or direct from us. As an agent you will be protected in your exclusive territory and have no competition from stores. Send at once for free sample and special terms to agents.

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Here is what we regard as the best \$1.00 fountain pen made in America. It is strongly made of best quality hard rubber, will not leak and has best quality 14 karat gold pen with diamond point. If you are not satisfied after giving a week's trial send it back and we will refund your money.

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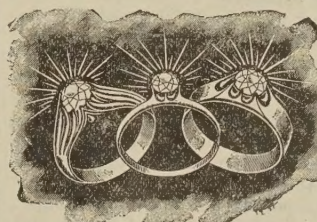
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THE ABOVE CONCERN IS RELIABLE AND CAN BE DEPEND UPON TO DO AS THEY AGREE.—EDITOR.



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to Any Stomach.

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Nothing in many years has so completely aston-
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far-famed cure for Rheumatism and Gout in every
form.

Twisted, swollen limbs, sciatica, muscular and in-
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Into small gelatine globules the wonderful concen-
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four a day kill every pain and dissolve and drive
from the system every trace of uric acid and chalky
deposit. There is no other remedy in all the world
like Dr. Swift's Rheumatism and Gout Cure. It is
the one shining light in medical science that really
cures the most hopeless cases.

A flood of grateful testimony is pouring in from
every State—unparalleled in history.

Mrs. M. E. Gaines, Foreman, Ala., was crippled.
One bottle killed the pains and put her on her feet.
J. M. Smith, 355 Main St., St. John, N. B., had
rheumatism of the eye, and a specialist gave him
potash till his stomach rebelled. Dr. Swift's discov-
ery cured him and gave him a well stomach. A. L.
Smallwood, Quitsna, N. C., writes that his neigh-
bors have had such results that he sends a large
order to supply scores of others. W. E. Ellis, Wood-
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atism since a boy, writes that a two months' treat-
ment of the famous Dr. Swift remedy cured him.
And so the good work goes on day by day. The
most hopeless sufferer can be cured if a cure is pos-
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specific that is sure to be acknowledged the stand-
ard of the world in uric treatment. If you are suf-
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cure of Rheumatism, Catarrh, and other diseases.
Agents Wanted.

Camera Notes.

Glycerine is the standard agent to
prevent prints from curling. Add a
little to both toning and fixing baths,
or immerse the finished prints in a
solution composed of water one part,
glycerine three parts, alcohol four
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The magnesium strips which are
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azines are strips of thin fabric im-
pregnated with magnesia powder.
They offer a convenient method of
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The Smithsonian Institute at Wash-
ington will shortly possess the most
rapid camera in the world. It is de-
signed to take a successful negative in
one six-hundredth of a second, and it
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each one will turn light blue. Con-
tinue washing until the blue disap-
pears. If no color appears the wash-
ing has been sufficient.

The truths we least desire to hear
are those which it would be to our ad-
vantage to know.

Foggy negatives: White light enter-
ing camera or dark room; too much
light during development; introduc-
tion of hypo into developing solution;
too warm developer, or excess of
alkali.

Too strong with clear shadows;
Under exposure.

Weak negatives with plenty of de-
tail in the shadows: Over exposure, or
too weak developer.

Too much intensity: Developer too
strong, or too warm.

Fine transparent lines: Using too
stiff a brush in dusting off plate.

Round transparent spots: Air bub-
bles in the developer.

Trans-parent spots of irregular shape:
Dust. Keep the inside of camera and
plate holder free from dust by occa-
sionally using a damp cloth to dust
with, and brush plates before ex-
posure with a soft camel-hair brush.

Mottled appearance of negative and
fading of image: Insufficient washing.

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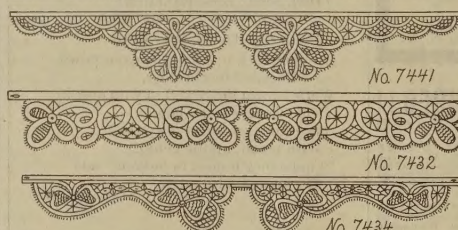
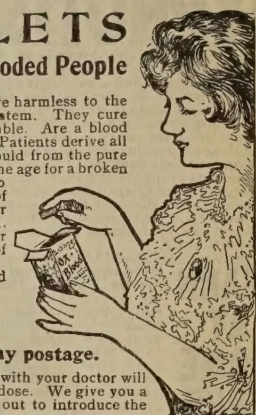
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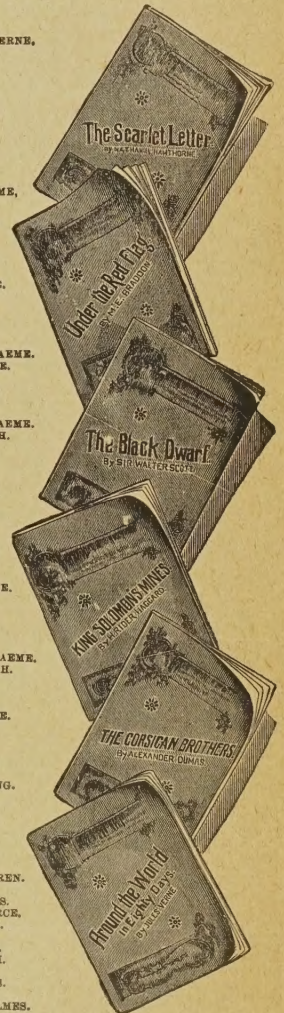
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

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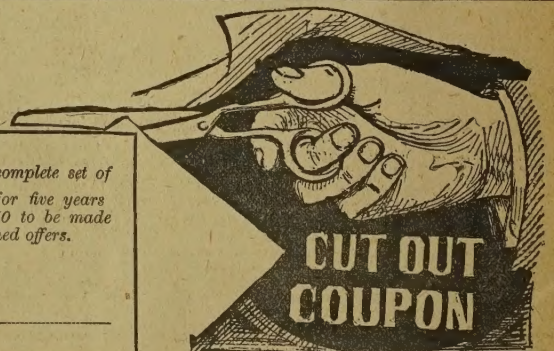
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